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主辦機關：交通部運輸研究所

出國計畫主辦機關/聯絡人/電話：

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分類號/目：HO／綜合類（交通類）

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關鍵詞：海岸工程、港灣規劃設計、數值模擬、海岸監測

內容摘要：

第30屆(2006)國際海岸工程研討會(30th International Conference on Coastal Engineering)於2006年9月2日至9月8日，在美國聖地雅哥，由美國海岸工程學會主辦舉辦，分別來自世界各國，發表論文計595篇，共分102個場次、張貼論文101篇及5個技術課程，論文及技術課程的種類包括了海岸構造物工程、海岸工程、港口相關設施管理、港灣規劃設計、港灣結構物安全、數值模擬、海岸監測等大項。我國有多位學者參與會議並發表文章，對於促進國際學術交流及吸取國外經驗有相當大的助益。

本文電子檔已上傳至出國報告資訊網

摘要

第 30 屆(2006)國際海岸工程研討會(30th International Conference on Coastal Engineering)於 2006 年 9 月 2 日至 9 月 8 日，在美國聖地雅哥，由美國海岸工程學會主辦舉辦，分別來自世界各國，發表論文計 595 篇，共分 102 個場次、張貼論文 101 篇及 5 個技術課程，論文及技術課程的種類包括了海岸構造物工程、海岸工程、港口相關設施管理、港灣規劃設計、港灣結構物安全、數值模擬、海岸監測等大項。我國有多位學者參與會議並發表文章，對於促進國際學術交流及吸取國外經驗有相當大的助益。

出席第 30 屆國際海岸工程研討會出國報告

目錄

行政院及所屬各機關出國報告提要	I
摘要.....	II
目錄.....	III
一、目的.....	1
二、研討會會場與行程	2
(一) 研討會地點	2
(二) 研討會行程	5
三、研討概述及心得	6
(一) 研討會論文研討	9
(二) 工程技術研討	11
(三) 會後心得	13
四、建議.....	14
附錄 1 發表論文作者及名稱	15
附錄 2 張貼論文作者及名稱	34

【出席第 30 屆國際海岸工程研討會】

出國報告

一、目的

2006 年第 30 屆國際海岸工程研討會(30th International Conference on Coastal Engineering)，從 9 月 2 日至 8 日，在美國加利福尼亞州聖地牙哥市舉行。ICCE 2006 是世界海岸工程有關科學首要的論壇，此次會議成功延續國際海岸工程研討會傳統。會議在聖地牙哥海港的海港村莊曼徹斯特飯店舉行，聖地牙哥山明水秀海岸優美，為聞名度假聖地，為來自全世界海岸工程師提供一流會議場所，並且討論及分享海岸有關工程的研究成果。

海岸工程國際研討會(International Conference on Coastal Engineering)始於 1950 年美國加州長堤市(Long Beach,USA)的一次研討會，當時相對於現有的國際研討會規模算是相當小型的；接續下去的三屆則每年皆於美國本土舉行一次，而於第五屆時開始邁向國際化由法國葛諾堡市(Grenoble,France)負責主辦此一盛會，從此以後經過海岸工程國際研討會委員會(ICEE)確定從 1960 年以後，在美國土木工程協會(ASCE)海岸工程研究委員會的贊助之下每兩年舉辦一次研討會。至此而後，海岸工程國際研討會委員會(ICEE)就在吸收海岸工程領域的最新技術與交換區域經驗之傳承理念下，分別由不同的國家來負責主辦。而也因此使得海岸工程國際研討會的各項論文或研究報告，於波浪產生及處理(wave generation and processes)、海岸沉澱物的運動(sediment transport)、海岸岸線處理(coastline processes)、港埠執行成效(harbor performance)及海岸和港埠結構(coastal and harbor structures)等研究領域中，在國際學術間是素有聲望的。

本研討會主要可分為六大主題，分別為：

- (1) 海岸海洋學和氣象學(Coastal Oceanography and Meteorology):包括波特性、波動理論、波浪產生、波浪傳遞、碎波、波浪數值模擬、潮流、波浪引起水面上升和其他水面變化之研究。
- (2) 海岸漂砂過程(Coastal Sediment Processes):包括漂砂傳送過程，沿海侵蝕、漂沙及沉澱物傳輸、海岸變遷、流況調查之研究。

- (3) 海岸結構物(**Coastal Structures**):包括結構物規劃、設計、建造、性能和維修、防波堤與沉箱結構、基礎沖刷、浮式或創新防波堤之研究。
- (4) 港口和海港(**Ports and Harbors**):包括港口和海港疏浚、停泊、港埠管理作業、海港共振、海港規劃、設計及建設之研究。
- (5) 海岸環境(**Coastal Environment**):包括海岸污染、娛樂、水質、濕地和河口、海岸生態、海灘保育及立法、海岸管理與計畫、環境保育之研究。
- (6) 海岸防災和洪水風險管理(**Coastal Hazards and Flood Risk Management**):包括海岸暴潮、地震、碎波沖刷地區、長波、海嘯、氣候變化、海灘侵蝕、海岸保護、防洪、越波、沿海溢淹、地區沿海觀察系統、和警告系統之研究。

本次研討會內容與本所目前主要研究皆有相當之關連，藉由國際學術交流參與，對於促進國際學術交流及吸取國外經驗，可提升本所研究能力及國際聲譽。

二、 研討會會場與行程

(一)研討會地點

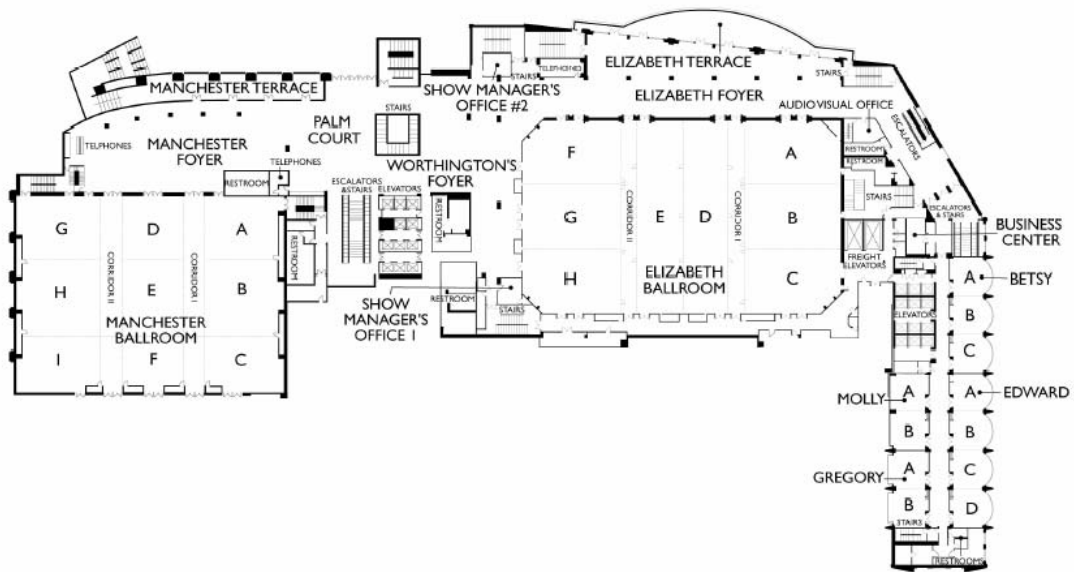
本次研討會地點在美國加利福尼亞州聖地牙哥市舉行(如圖 1)。ICCE 2006 是世界海岸工程有關科學首要的論壇，會議在聖地牙哥海港的海港村莊曼徹斯特飯店舉行(如圖 2)，聖地牙哥山明水秀海岸優美，為聞名度假聖地，為來自全世界海岸工程師提供一流會議場所，並且討論及分享海岸有關工程的研究成果。開會會場(如圖 3 所示)。



圖 1 美國加利福尼亞州聖地牙哥市



圖 2 美國聖地牙哥市曼徹斯特飯店



Registration Desk :Elizabeth Foyer

ICCE 2006 Administrative Office :Gregory A

Speaker Presentation Preview Room :Gregory B

Opening Ceremonies: Manchester Ballroom

Coffee Break Outs :Elizabeth Foyer and/orElizabeth D & E

Lunches :To be posted at conference

Pre-Conference Technical Short Courses

Betsy AB Edward AB Edward CD

Technical Paper Session Rooms

Session A: Elizabeth A Session B: Elizabeth B

Session C: Elizabeth C Session D: Elizabeth F

Session E: Elizabeth G Session F: Elizabeth H

Exhibitor's Area :Elizabeth D & Elizabeth E

Poster Papers

Session 18A: Worthington's Foyer

Session 18B: Elizabeth Foyer

圖 3 2006 年第 30 屆國際海岸工程研討會會場

(二) 研討會行程

配合研討會行程，於 9 月 1 日出發，9 月 2 日到達聖地牙哥，研討會主要行程概要如附表 1 所示。

表 1 出席美國聖地雅哥第 30 屆國際海岸工程研討會工作既要表

日期	起迄地點	工作紀要
9/1	台北--美國聖地雅哥	起程
9/2	美國聖地雅哥	參加研討會
9/3	美國聖地雅哥	參加研討會
9/4	美國聖地雅哥	參加研討會
9/5	美國聖地雅哥	參加研討會
9/6	美國聖地雅哥	參加研討會
9/7	美國聖地雅哥	參加研討會
9/8	美國聖地雅哥--台北	參加研討會及回程

三、 研討會概述及心得

本屆研討會除了論文發表以外，為了推廣國際現有海岸工程施工方法及量測技術的開發與新知，由主辦單位及國際間海岸工程界之研究單位、營造公司、顧問公司、儀器廠商等共同陳列展示自有技術與成果，供與會學者參觀與洽談，是一項極為成功的研發與應用合而唯一的研討會。

本屆研討會發表論文計 595 篇，共分 102 個場次、張貼論文 101 篇及 5 個技術課程，議程如表 2，發表論文之六大主題其議程如表 3，發表論文作者及名稱如附錄 1，張貼論文作者及名稱如附錄 2。。經依照學術領域加以分類共可分為六大主題，分別為：

本研討會主要可分為六大主題，分別為：

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- (2) 海岸漂砂過程(Coastal Sediment Processes):包括漂砂傳送過程，沿海侵蝕、漂沙及沉澱物傳輸、海岸變遷、流況調查之研究。
- (3) 海岸結構物(Coastal Structures):包括結構物規劃、設計、建造、性能和維修、防波堤與沉箱結構、基礎沖刷、浮式或創新防波堤之研究。
- (4) 港口和海港(Ports and Harbors):包括港口和海港疏浚、停泊、港埠管理作業、海港共振、海港規劃、設計及建設之研究。
- (5) 海岸環境(Coastal Environment):包括海岸污染、娛樂、水質、濕地和河口、海岸生態、海灘保育及立法、海岸管理與計畫、環境保育之研究。
- (6) 海岸防災和洪水風險管理(Coastal Hazards and Flood Risk Management):包括海岸暴潮、地震、碎波沖刷地區、長波、海嘯、氣候變化、海灘侵蝕、海岸保護、防洪、越波、沿海溢淹、地區沿海觀察系統、和警告系統之研究。

表2 研討會論文及技術課程之議程

ICCE 2006 CONFERENCE PROGRAM AT A GLANCE

	Saturday September 2	Sunday, September 3	Monday September 4	Tuesday September 5	Wednesday September 6	Thursday September 7	Friday September 8
MORNING CONFERENCE	PRE-CONFERENCE TECHNICAL SHORT COURSES:	PRE-CONFERENCE TECHNICAL SHORT COURSES:	OPENING CEREMONIES 8am - 9:40am CONCURRENT SESSIONS & EXHIBITORS 10:20am - 12pm <i>Accompanying Persons program commences at conclusion of Opening Session</i>	CONCURRENT SESSIONS & EXHIBITORS 8am - 12pm	CONCURRENT SESSIONS & EXHIBITORS 8am - 12pm	CONCURRENT SESSIONS & EXHIBITORS 8am - 12pm	CONCURRENT SESSIONS & EXHIBITORS 8am - 12pm
MORNING ACCOMPANYING PERSONS TOUR	1. Numerical Modeling for Coastal Engineering 2. Coastal Engineering Practice ALL SHORT COURSES SCHEDULED 9:00 am - 4:00 pm BOTH DAYS IN THE HYATT HOTEL	3. Coastal Zone Management for Coastal Engineers 4. Introduction to the Coastal Engineering Manual and Introduction to CEDAS 5. Engineering a Coastal Project: Nearshore Placement of Dredged Material		SAN DIEGO ZOO TOUR (Limited to 40 persons) 8:45 am - 12 pm Enjoy a "Behind the Scenes" private guided tour at the world's finest zoo! Includes transportation, private guide, and chance to interact & meet animals close-up in 2 settings selected by the zoo. BALBOA PARK FOOD & WINE SCHOOL AT THE PRADO (Limited to 16 persons) 10:00 am - 2:00 pm Enjoy an outstanding gourmet culinary experience & lunch with a great chef and selected wine at the Balboa Park Food & Wine School at the Prado in their private teaching kitchen. ZOO AND COOKING OFFERED BOTH DAYS		MEXICO TOUR Travel to Rosarito & visit "Foxploration" where the Titanic was filmed; enjoy lunch with spectacular ocean views; continue to Tijuana for great shopping. Includes transportation, lunch and guide. Personal identification and proof of citizenship required (Based on minimum 25 persons) 8:30 am - 5:00 pm	WILD ANIMAL PARK & OPTIONAL PHOTO SAFARI Visit the Nairobi Village, take a Kilimanjaro Safari walk & ride the Wagashi Bush Line Railway. Optional: Join a "photo safari" & meet animals in their open habitats on a safari style experience. (Photo Safari very limited and must be pre-reserved) 8:30 am - 4:30 pm
LUNCH	Lunch included in technical course	Lunch included in technical course	Conference lunch included 12pm - 1:40pm	Conference lunch included 12pm - 1:40pm	Lunch included on technical tour	Conference lunch included 12pm - 1:40pm	Conference lunch included 12pm - 1:40pm
AFTERNOON CONFERENCE	Technical Courses continue through the afternoon as scheduled	Technical Courses continue through the afternoon as scheduled	CONCURRENT SESSIONS & EXHIBITORS 1:40pm - 6:00pm	CONCURRENT SESSIONS & EXHIBITORS 1:40pm - 5:40pm	ICCE TECHNICAL TOURS (included) 12pm-6pm ■ San Diego Bay "Diverse Use" Cruise ■ Scripps Institute of Oceanography & Birch Aquarium ■ Shore Protection & Beaches Tour ■ Wetlands Multiple Use ICCE SPORTING EVENTS (Additional cost) ■ ICCE Sailing Regatta on San Diego Bay ■ ICCE Golf Tournament	CONCURRENT SESSIONS & EXHIBITORS 1:40pm - 6:00pm	CONCURRENT SESSIONS & EXHIBITORS 1:40pm - 6:00pm
AFTERNOON ACCOMPANYING PERSONS TOUR			SAN DIEGO SIGHTSEEING Enjoy a fast paced tour to Coronado and the famous Del Coronado Hotel, a walk in Balboa Park, visit to scenic La Jolla, and San Diego's Old Town with time for lunch at leisure. 11am - 4 pm				
EVENING EVENT		ICCE WELCOME RECEPTION Hyatt Manchester Elizabeth Foyer 5:30pm - 7:30pm	FREE EVENING <i>NO EVENING EVENTS SCHEDULED</i>	EVENING AT SEA WORLD Cocktails at Arctic Pavilion & penguin Encounter, buffet dinner at Nautilus Pavilion, and our own private "Shamu the Whale" Show. 6:30 pm - 10:30pm	FREE EVENING <i>NO EVENING EVENTS SCHEDULED</i>	FREE EVENING <i>NO EVENING EVENTS SCHEDULED</i>	CLOSING BANQUET Aboard the Aircraft Carrier USS Midway (Walking distance from hotel) 7 pm - 11 pm

表3 發表論文六大主題議程

Room	Elizabeth A	Elizabeth B	Elizabeth C	Elizabeth F	Elizabeth G	Elizabeth H
MONDAY	1-A Boussinesq Type Wave Models 2-A Modeling & Design for Confined Conditions 3-A Nonlinear Wave Simulations	1-B Sediment Processes in the Boundary Layer I 2-B Surfzone Processes 3-B Fine-Grained Sediments	1-C Swash Zone Hydrodynamics 2-C Air-Wave-Current Interaction 3-C Ripples and Sand Waves I	1-D Experimental Model Tests of Coastal Structures 2-D Numerical Models of Coastal Structures 3-D Wave Effects on Structures	1-E Storm Surges I 2-E Storm Surges II 3-E Runup and Overtopping	1-F Coastal Morphology I 2-F Morphological Effects of Structures 3-F Coastal Morphology II
TUESDAY	4-A Long Waves I 5-A Long Waves II 6-A Extreme Waves 7-A Statistical Wave Descriptions	4-B Suspended Sand Transport 5-B Closure Depth 6-B The Effect of Grain Size on Sand Transport 7-B Prediction of Beach Changes	4-C Tidal Inlets I 5-C Tidal Inlets II 6-C Coastal Circulation 7-C Rip Currents	4-D Breakwaters I 5-D Breakwaters II 6-D Breakwaters III 7-D Breakwaters IV	4-E Tsunamis 5-E 2004 Indian Ocean Tsunami 6-E Models for Tsunami Generation and Propagation 7-E Tsunami Risk Assessment	4-F Beach Processes and Engineering Solutions 5-F Beach Restoration I 6-F Beach Restoration II 7-F Coastal Planning
WEDNESDAY	8-A Wave Transformation 9-A Laboratory Wave Studies	8-B Beach and Tidal Inlet Morphologic Change 9-B Sediment Processes in the Boundary Layer II	8-C Boundary Layers 9-C Sandbars	8-D Submerged Breakwaters 9-D Submerged Breakwaters II	8-E Wave Setup and Overtopping I 9-E Wave Setup and Overtopping II	8-F Dredging Effects on Morphology 9-F Wetland Restoration
THURSDAY	10-A Breaking Waves I 11-A Breaking Waves II 12-A Waves on Beaches 13-A Remote Sensing of Ocean Waves	10-B Modeling Coastal Sediment Processes I 11-B Modeling Coastal Sediment Processes II 12-B Physical Model of Sediment Transport 13-B Regional Sand Management I	10-C Ripples and Sand Waves II 11-C The CROSSTEX Lab Experiment 12-C Hydrodynamic Field Measurements 13-C Scour Around Cylinders	10-D Berm and Composite Breakwaters 11-D Caisson Structures 12-D Caissons and Vertical Structures 13-D Physical and Numerical Models of Sediment Process	10-E Coastal Flood & Tsunami Events 11-E Coastal Erosion Hazards 12-E Probabilistic Treatment of Storm Events 13-E FEMA Flood Guidelines	10-F Tsunami Impacts in Ports and Harbors 11-F Engineering Investigations of Ports and Harbors 12-F Sustainable Coastal Development I 13-F Shoreline Change Prediction I
FRIDAY	14-A Wave Model 15-A Advanced Wave Modeling 16-A Regional Wave Studies 17-A Regional Wave Models	14-B Regional Sand Management II 15-B Sediment Budgets 16-B Longshore Transport 17-B Large Scale Morphological Studies	14-C Remote Sensing 15-C Scour at Structures 16-C Geotextiles in Coastal Engineering 17-C Sediment-Structure Response	14-D Wave Forces 15-D Monitoring of Coastal Structures 16-D Wave Structure Interaction I 17-D Wave Structure Interaction II	14-E Effects of Hurricanes and Typhoons 15-E Effects of Overwash 16-E Dune and Beach Erosion 17-E Shore Protection Measures	14-F Mixing in the Coastal Environment 15-F Environmental Hydrodynamics 16-F Shoreline Change Prediction II 17-F Long Waves in Harbors

(一) 研討會論文研討

本研討會包括發表論文計 595 篇、張貼論文 101 篇，依六大主題研討會論文內容摘要介紹如下：

主題 1：海岸海洋學和氣象學(Coastal Oceanography and Meteorology):包括波特性、波動理論、波浪產生、波浪傳遞、碎波、波浪數值模擬、潮流、波浪引起水面上昇和其他水面變化之研究。有關波浪產生、波浪傳遞、碎波、波浪數值模擬之研究，本主題發表論文主要著重在波浪之形成、傳遞過程、變形以致到達碎波之情況，此一連串波浪演變歷程的探索研究；對於入射波與反射波波動之時域解析較為實用，其利用不同振幅的規則波之時域波動條件來解析規則波動時域資料轉換頻率域後之誤差，提出一個可行的修正方式；處理波浪時域資料與頻域資料間的轉換時，提供一個可以利用的參考工具。

主題 2：海岸漂砂過程(Coastal Sediment Processes)):包括漂砂傳送過程，沿海侵蝕、漂沙及沉澱物傳輸、海岸變遷、流況調查之研究。有關漂沙及沉澱物傳輸、海岸變遷、流況調查之研究，本主題發表論文主要著重在利用現場實例與實驗室實測資料，來驗證海岸漂沙機制及波浪、海流對海岸變遷之影響。波浪、海流等作用於海岸泥沙質底床產生漂沙活動，形成沿岸或向離漂沙輸送。任何海岸構造物興建都會破壞原有海岸平衡而造成局部沖刷或淤積現象。由於海岸漂沙力學機制極為複雜，影響因子繁多，有些甚至無法量化。因此，大多數海岸漂沙問題均採用漂沙水工模型試驗尋求解決方法。為了解波浪、海流所造成漂沙輸送過程，科學家經過半世紀以上之研究。雖然出版數千篇論文或報告，但時至今日仍無法有信心的預測海岸地形變遷。本次研討會幾篇論文，改變過去只重視底床質輸送，把焦點改放在懸浮質輸送，正確的評估碎波引起的懸浮漂沙在海岸變遷的機制。可以作為研究海岸漂沙過程新方向。

主題 3：海岸結構物(Coastal Structures):包括結構物規劃、設計、建造、性能和維修、防波堤與沉箱結構、基礎沖刷、浮式或創新防波堤之研究。有關防波堤與沉箱結構、基礎沖刷、浮式或創新防波堤之研究，本主題發表

論文主要著重在防波堤之結構設計與新式防波堤之開發研究；連續開孔式防波堤相較於傳統式防波堤其漂沙對港內的淤積情況並無明顯的影響，且其對波浪之遮蔽效果與越波情況皆十分良好，亦不會對港內船舶造成避難與停靠時的困擾，顯見連續開孔式防波堤除工程上的經濟優勢外，也可兼顧安全性與穩靜性，是一個極佳的防波堤港灣工程選擇。

主題 4：港口和海港(Ports and Harbors):包括港口和海港疏浚、停泊、港埠管理作業、海港共振、海港規劃、設計及建設之研究。有關海港規劃、設計及建設之研究，本主題論文主要是針對海岸構造物工程、海岸工程、港口相關設施管理、港灣規劃設計、港灣結構物安全、數值模擬、海岸監測等等問題提出案例來探討；本次研討會很多論文發表是針對特定海港管理問題，提出之解決方案與對策，然雖屬區域性問題探討，但有些是適足以供為海島國家台灣取為借鏡。

主題 5：海岸環境(Coastal Environment):包括海岸污染、娛樂、水質、濕地和河口、海岸生態、港埠管理作業、海灘保育及立法、海岸管理與計畫、環境保育之研究。本主題論文的主要論述，著重於海洋環境之保育及海洋污染防治。對於海洋污染應變，通常採取數值模式進行污染物的擴散模擬，並藉由模擬結果研判污染物的擴散方向、速度及範圍，從而研擬圍堵及清除方法。因此污染物之擴散模式建立，對海洋污染防治是一項重要的工作。污染防治的真正意義不在於通過立法及公告，而在於是否能確切的執行，各個有關海洋污染處理的相關法案也應在整合分工，如此才能真正發揮功效保護海洋環境。

主題 6：海岸防災和洪水風險管理(**Coastal Hazards and Flood Risk Management**):包括海岸暴潮、地震、碎波沖刷地區、長波、海嘯、氣候變化、海灘侵蝕、海岸保護、防洪、越波、沿海溢淹、地區沿海觀察系統、和警告系統之研究。有關潮汐處理、海岸保護、防洪及越波之研究，本主題研究論文主要是針對潮汐與海岸保育、防洪、越波等海岸保護問題提出一些解決之道，參考這些學者專家的實例經驗，也許對於標榜以海洋立國的台灣，爾後遇到海岸保護與防災方面得到一些啟示與借鏡。

(二) 工程技術研討

課程 1 :海岸工程的數值模式 (Numerical Modeling for Coastal Engineering)

主講人: 羅伯特·A.達爾林普爾, 約翰霍普金斯大學; 吉姆·柯比, 特拉華大學。
(Robert A. Dalrymple, Johns Hopkins University Jim Kirby, University of Delaware)

內容:這門課程主要討論波浪模式、潮汐模式、海流模式和海岸漂沙運輸模式等。
數值模式從簡單到複雜的範圍內, 模式操作過程皆詳細討論。

課程 2 :海岸工程實際操作(Coastal Engineering Practice)

主講人: J.威廉, 女王大學(J. William Kamphuis, Queen's University)

內容:這是一門較廣泛的導論課(複習課程)。 海岸工程實際操作基本原理, 包括普遍廣闊領域皆被探索。有關短波理論分析、轉變和毀壞也有討論。有關長波, 例如潮流和海嘯各種各變化, 尤其長波是最重要沿海設計條件, 兩個基本的主题(包括短和長的波), 海岸漂沙運輸模式和海岸過程。 討論沿海設計方法, 並檢查設計沿海工程成果, 最後探討有關於海岸科學和工程在環境模擬問題。

課程 3 :海岸工程管理 (Coastal Zone Management for Coastal Engineers):

主講人: 勒斯利·尤因, 加利福尼亞海岸局; 約翰, NOAA 太平洋服務中心; Jamee 約旦培特森, 加利福尼亞律師辦公廳; 保羅 Klarin, 俄勒岡州沿海管理計畫; 麥克·巴尼特, 夏威夷大學; 海灘和沿海系統多蘭佛羅裡達局 (Lesley Ewing, California Coastal Commission; John Marra, NOAA Pacific Services Center Jamee; Jordan Patterson, California Attorney General's Office; Paul Klarin, Oregon Coastal Management Program; Michael Barnett, Florida Bureau of Beaches & Coastal Systems; Dolan Eversole, University of Hawaii Sea Grant)

內容:海岸專業人士的領域經常分成兩組 -- 科學家和工程師, 在海岸研究和海岸

規劃，海岸區域經營和決策在計畫沿海土地使用，有效的海岸計畫要求海岸科學家和工程師進行海岸工程整合研究。在美國，沿海區域管理由州及地方政府聯合管理。來自全國的幾個計畫成果，也在分區討論重要管理要素，提出案例研究並且幫助沿海科學家和工程師成功把沿海工程和科學用于沿海區域管理。

課程 4a :CEM 的介紹 - 沿海工程手冊 (Introduction to the CEM - Coastal Engineering Manual)

主講人:李·巴特勒，Veri 技術股份有限公司 (Lee Butler, Veri-Tech, Inc)

內容:兩個題目將被討論：CEM 發展的概述，CEM1984 岸保護手冊之間的差別的比較，以及 CEM-CEM 2.01 專業版本討論。

課程 4b :CEDAS 的介紹 - 沿海工程設計和分析系統 (Introduction to CEDAS - Coastal Engineering Design and Analysis System)

主講人:李·巴特勒，技術股份有限公司；馬克，工程研究和發展中心(ERDC) (Lee Butler, Veri-Tech, Inc. ; Mark Gravens, Engineering Research & Development Center (ERDC))

內容:CEDAS 訓練包括概述和關於以下之模式討論：ACES, RELIABLE, EST, DYNLET, NMLONG，並進行詳細操作 CEDAS 模組。

課程 5: 設計一項沿海工程：沿岸材料研究 (Engineering a Coastal Project: Nearshore Placement of Dredged Material)

主講人:簡·史密斯，工程研究和發展中心(ERDC)；喬 Gailani，工程研究和發展中心(ERDC)；朱莉 Rosati，工程研究和發展中心(ERDC)；賈雷爾·史密斯，工程研究和發展中心(ERDC)。

內容: 這門課程針對沿海工程設計，包括分析和建模技術。課程集中包括疏浚和

有利的使用疏浚材料案例研究。工程混合對領域各種數據，數值模擬集成到一項工程的評估。模型化包括短波(STWAVE)，流通(ADCIRC)，疏浚(SSFATE，GTRAN)，以及海灘反應(起源)等現象。

(三) 會後心得

綜觀本屆海洋工程研討會研究論文發表，各主題領域研究趨勢，已由過去積極開發海岸資源、講究各種施工技術與增進港埠管理運量等方面的研究，漸漸轉換成為注重海岸保育、海岸防災、生態維護等領域。台灣目前仍然在海岸沖蝕，港埠建設持續開發，政府部門輕環保重經濟；當國際間一片海洋保育聲浪高漲之時，我們應加強海岸資源保育，生態維護與海岸防災等議題。尤其海岸防災方面更應針對複合性災害，提出因應措施，以堅實的科技研發為基礎，加強整合機制，逐步提升整體性抗災能力，減輕災害可能造成損失與衝擊。。

世界各國無不努力爭取海岸工程國際研討會議主辦權，藉以提昇各國在國際間的學術地位，並增進學術風氣；由歷屆主辦國家城市顯示，歐美先進與日本等已開發國家城市皆已主辦過數屆，而我國只在第二十屆時於台北主辦過一次；參加此次國際盛會過後，感受我國海岸工程學界應積極爭取海岸工程國際研討會的主辦權，如此才能有效瞭解國際海岸工程界現有的研究近況與趨勢，快速即時的與國際接軌合作。

由這次國際學術研討會中，深切體認到不論那個國家，在工程技術上無不竭盡所能奮力向前，因此透過各種研討會的交流，將新的觀念與技術引進國內應當是一種最佳的方法。因為在研討會上，參加的人可以在短時間之內分享專家學者們最新的研究成果，而得到經驗的傳承與技術的交流，尤其許多知名的專家學者，他們多年的經驗，在經過精心整理後，透過精闢的簡報與問答，如能有效的利用，很快的就能解除心中的疑惑，削減技術的盲點，參加此次研討會，個人覺得尤其在數值模擬及新預報技術研方面收穫良多，對未來本所研究計畫工作推動或執行應有甚多助益。

四、建議

1. 近年來受到全球氣候變遷的影響，天然災害的威脅更為嚴苛，侵襲頻率也有逐漸增加的趨勢，早期近岸防災標準，已無法符合現實需求，防災設施必須從新評估，以因應需求標準。為了提供政府決策單位及人民開發建設依據，國內建立本土化之近岸防救災系統是迫切需要的。近岸防救災系統應在整合氣象局、水利署、環保署等相關業務，以納入政府防救災體系中。在結合具有相當經驗與基礎之技術研發，擴大災害防救科技研發與技術支援能量，強化資訊綜整與分析研判機制，將研發能量由「技術支援」提升至「政策支持」，使政府面臨災害防救重大決策時，能夠及時獲得正確資訊。
2. 由於電腦科技日新月異，海岸工程學界所需資訊，需倚賴數值模擬與預報，然因缺乏現場實測數據加以驗證，常無法掌握確實資訊，容易造成規劃設計與防災執行時的錯誤判斷；學者專家呼籲現場調查與實測資料取得的重要性；海洋環境的生成機制是十分複雜的，如果僅靠數值模式的推算方式是無法確實掌握正確的海象情況；針對於此我國海岸工程學界更應積極重視現場觀測資料之獲取，應加速整合國科會、氣象局、水利署、環保署等相關單位之個別資料庫，早日完成建立全國性海象資料庫。
3. 在本次的研討會中，發現經由電腦科技之技術整合，跨國研究已非遙不可及，但語言在這之中卻扮演著非常重要的角色，如何加強英語的溝通能力應列為當務之急，尤其在我國加入 WTO 後，跨國的經濟活動加速發展，台灣更不可能置身事外，因此除專業技術外，語言的訓練也甚重要。
4. 台灣地理環境特殊，無法避免颱風與地震等天然災害之發生，屬於高災害潛勢地區。加以社會快速發展，環境之脆弱性增加，近年災害頻率與規模均有增大趨勢。因而，我國未來災害防救工作所面臨之挑戰，勢必日趨嚴峻。未雨綢繆，建立海洋諮詢科技團隊、加強海域長期海氣象觀測及分析研究，以協助政府相關部門運用高科技來保護海洋環境及海難災害即時搶救等。應進行的工作包括：彙整海洋災害之資料、建立生態環境背景資料、建立掌握海氣象狀況、海象預警及油污漂流預警之能力等。

附錄1 發表論文名稱及作者

PAPERS ACCEPTED FOR ORAL PRESENTATION AT ICCE 2006

PRIMARY AUTHOR	PAPER TITLE	COAUTHOR(S)
Abdie, Stéphane	Coupled Numerical Model for Tsunamis Generated by Subareal (and Submarine) Mass Failures	Grilli, Glockner
Absik, Rafik	Influence of Sand Grain Sizes on Turbulent Mixing	
Abualtayef, Mazen	3D Numerical Simulations of Wetting and Drying Bed due to Tidal Currents using Fractional Step Method	Kuroiwa, Nakahira, Tanaka, Matsubara
Agarwal, Arpit	Longshore Suspended Sediment Transport in Surf and Swash Zones	Kobayashi, Johnson
Ahn, Kyungmo	Effect of Sediment Fall Velocity in Beach Profile Evolution	Cheon, Dean
Albada, Edward	Response of the Fort Pierce, FL Shore Protection Project to the 2004 Hurricane Season	Bender
Al-Banaa, Khaled	Laboratory Investigation of the Interaction of Solitary Waves with a Surface-piercing-type Vertical Barrier	Liu
Allsop, William	New Prediction Method for Wave-in-Deck Loads on Exposed Piers and Jetties	Cuomo, Tirindelli
Alsina, Jose	Numerical and Experimental Analysis of Low Crested Structures: Wave Transmission and Induced Flows	Cáceres, Gonzalez-Marco, Sanchez-Arcilla, Oliver
Amaya, Alvarez	RICUFOs: Rip Current Forecasting System: A Pilot Project	Guillermo, Raul, Tintoré
Ambati, Vijaya	Implicit Discontinuous Galerkin Finite Element Discretization for Wave Runup and Backwash on Beaches	Bokhove
Amoudry, Laurent	Extension of Sheet Flow Model to Sand Grains	Liu
Andrews, Connon	Near and Far Field Mixing of Desalination Brine Discharges	Todd, Miller
Antuono, Matteo	Swash Zone Boundary Conditions: The Longshore Flow	Grosso, Brocchini
Apotsos, Alex	Wave Setup Simulations	Raubenheimer, Elgar, Guza, Smith
Appendini, Christian	Beach Nourishment in Cunit, Spain: Shifting from Hard to Soft Protection	Medina, Galofre, Santos Lopez, Palmeiro
Apsley, David	Numerical Modelling of Particle-Laden Buoyant Jets	Lane-Serff, Lipari, Stansby
Araújo, Rodrigo	Combined Physical and Numerical Modeling Study for New Pier Layout in Ponta da Madeira Harbor (Brazil)	Alfredini, Amaral
Archetti, Renata	Study of Hydrodynamics Induced by Low Crested Structures through Image Processing	Lamberti
Ardhuin, Fabrice	Comparison and Validation of Spectral Wave Models with Tidal Effects	Girard-Becq, Benoit
Arena, Felice	Nonlinear Random Wave Groups in Finite Water Depth	Pavone, Romolo, Nava
Arikawa, Taro	Large Model Test of Tsunami Force on a Seawall and on Land Structures	Shimosako, Imamura, Ikebe
Armono, Haryo	Laboratory Study on Wave Transmission through Hemispherical Hollow Artificial Reefs	Hall
Asano, Toshiyuki	Mitigation Effects of Mangrove Forests Against Tsunami Attack	
Baba, Yasuyuki	Development and Application of a N-line Model on the Joetsu-Ogata coast, Japan	Camenen, Yamashita
Bacon, John	Tombolo Equilibrium and Stability	Vincent, Dolphin, Taylor, Pan, O'Connor
Bailard, James	Improving Sand Bypassing at Santa Barbara Harbor	
Balanche, Abel	Infragavity Waves in a Saturated Surf Zone	Sénéchal, Bonneton
Baquerizo, Asunción	Time Dependent Beach Profile Response to Climate Changes	Santiago, Avila, Losada
Barnard, Patrick	Monitoring, Modeling and Predicting Nearshore Dredge Disposal Performance for Indirect Beach Nourishment: Ocean Beach, San Francisco, California	Hanes, Lescinski
Barthel, Volker	Coastal Engineering - The Core of ICZM	
Barua, Dilip K.	Modeling Tsunami and Resonance Response of Alberni Inlet, British Columbia	Allyn, Quick
Basco, David	On the Classification of Coastal Storms Using Principles of Momentum Conservation	Klentmzna
Battalio, Bob	Predicting Closure and Breaching Frequencies of Small Tidal Inlets -A Quantified Conceptual Model	Danmeier, Williams

Bayram, Atilla	New Formula for the Total Longshore Sediment Transport Rate	Mustar, Larson
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PRIMARY AUTHOR	PAPER TITLE	COAUTHOR(S)
Bellotti, Giorgio	Tsunami Waves Generated by Landslides on a Plane Beach: New Three-Dimensional Experiments	Di Risio, Panizzo, De Girolamo
Beltrami, Gian Mario	Energy Budget of Storm Surges in the Adriatic Sea	Andrea, Briganti
Bender, Christopher	Wave Energy Reflection and Potential Shoreline Response Leeward	Dean
Benedet, Lindino	Analysis of Beach Nourishment Performance and Hot Spot Development at Delray Beach (Florida) Based on a Decade of Monitoring Data and Process-Based Numerical Modeling	Stive, Hartog, Walstra, Van Koningsveld
Benoit, Michel	Implementation and Test of Improved Methods for Evaluation of Nonlinear Quadruplet Interactions in a Third Generation Wave Model	
Bernitt, Laurits	Planform Response in Relation to Height of Breakwaters	Jensen
Besio, Giovanni	Sediment Transport Patterns in a Field of Cylindrical Porous Structures: Trafalgar Offshore Wind Farm	Losada
Bezuijen, Adam	Oblique Irregular Wave Loading on a Placed Block Revetment	Klein Breteler, Kuiper, Hart
Bingham, Harry	On the Accuracy and Efficiency of Low- and High-Order Finite Difference Solutions for Nonlinear Waves	Fuhrman, Madsen
Birkemeier, William	New Mid-Atlantic Observations of the Depth of Closure	Forte, Miller
Bjørndal, Sverre	Experience of Norwegian Rubble Mound Breakwaters - Design, construction and today's state	Jacobsen
Bodge, Kevin	Groins, Headlands, and Cutting an Island in Two in the Maldives	Howard
Bonneton, Natalie	Very Low Frequency Rip Current Pulsations During High-Energy Wave Conditions on a Meso-Macro Tidal Beach	Bonneton, Sénéchal, Castelle
Borrero, Jose	Generating Initial Conditions for Studying Tsunami Effects on Port and Harbor Facilities in California	Uslu, Titov, Synolakis
Bottema, Marcel	Meteorologically Generated Large-scale Water Level Fluctuations	de Jong, Stolker
Boudreau, Russell	Improving the Aesthetics of Shore Protection Structures: A Case Study	
Bredmose, Henrik	3D Transfer of Boussinesq Waves to a Navier-Stokes Solver	Hansen
Briganti, Riccardo	Wave-averaged and Wave-resolving Numerical Modeling of Vorticity Transport in the Nearshore Region: the SANDYDUCK Case Study	Kirby, Shi, Lipphardt, Brocchini
Briggs, Michael	Risk-Based Predictions for Ship Underkeel Clearance	Silver, Borgman
Bruce, Tom	Comparison of Overtopping Performance of Different Rubble Mound Breakwater Armour	van der Meer, Franco, Pearson
Buccino, Mariano	Predicting Wave Transmission at Low Crested Breakwaters by Physically-Based Design Equations	Calabrese
Buijs, Foekje	Performance-based Approach to Coastal Defence Failure Processes and Inspection	Simm, Sayers
Bundgaard, Klavs	Applying State-of-the-Art Unstructured Mesh Models on Flushing Studies: "The World" in Dubai	Jensen, Sørensen, Brøker, Erichsen
Burcharth, H. F.	Overtopping of Rubble Mound Breakwaters with Front Reservoir	Lykke Andersen
Burgess, Kevin	Consistent Approach to Coastal Erosion Risk Assessment	Hosking
Calabrese, Mario	Hydraulic Response of Low Crested Breakwaters for Engineering Applications	Buccino
Calantoni, Joseph	Direct Numerical Simulation of Coupled Two-phase Wave Bottom Boundary Layer	Slinn, Holland
Callaghan, David	Generation of Extreme Wave Conditions from an Accelerating Tropical Cyclone	Callaghan, Nielsen
Cambazoglu, Kemal	Numerical Investigations on the Effect of Wave Skewness on Sandbar Migration	Lescinski, Haas, Hanes
Campbell, Lorna	Wave Boundary Layer Velocities in Oscillatory Sheet Flow	O'Donoghue
Campbell, Thomas	Analysis of Coastal Evolution and Morphosedimentary Processes on a Degrading Barrier Island in Southeast Louisiana	Thomson, Benedet

Canizares, Rafael	Simulation of Coastal Morphological Response to Tsunamis	Alfageme, Headland
Capitao, Rui	Wave Regime Characterization on the Portuguese Coast using Hindcast and Wave Propagation Models	Fortes, Carvalho, Coli, Pinheiro
Cappiotti, Lorenzo	Piling-up and Filtration at Low Crested Breakwaters of Different Permeability	Clementi, Aminti, Lamberti

PRIMARY AUTHOR	PAPER TITLE	COAUTHOR(S)
Carmenen, Benoit	Suspended Load Formula for the Nearshore	Larson
Carstensen, Stefan	Coherent Structures in Oscillatory Boundary Layers	Sumer, Fredsøe
Cartwright, Nick	On the Role of Capillarity in the Coupling of the Swash Zone with Sandy Beach Aquifers	Nielsen, Baldock
Castillo, M ^a Carmen	Wave Height Distributions Along a Beach Profile	Losada
Certain, Raphaël	Conceptual Modelling of Straight Sand Bars Morphodynamics for a Microtidal Beach	Barusseau
Chen, Guan-Yu	Forecast of Infragravity Edge Waves Based on Wind-Wave Models	
Chen, Qin	Numerical Modeling of Alongshore Swash Zone Currents	
Cherlet, Jane	Integrated Study of Wave Propagation in Oostende Harbour, Belgium	Troch, Gysens, Boone, Willems, De Rouck, Van Damme
Chiang, Wen-Son	Effect of Wave Steepness on the Evolution of Nonlinear Wave Trains	Hsiao, Hwung
Chickadel, Chris	Optical Measurements of Wave Rollers	Holman
Chonwattana, Somchai	3D Numerical Modelling of Morphological Change Between Fishtail Groins	Weesakul
Christensen, Erik Damgaard	Sediment Transport Pattern Around a Large Circular Cylinder in Waves	Jensen, Hansen
Christian, Colin	A Bayesian Approach to Coastal Risk Management	
Cialone, Mary	Morphology Change Simulation of the 1993 Breach at Grays Harbor, Washington	
Ciavola, Paolo	Morphodynamics of Nearshore Rhythmic Forms: An Energy-Based Classification	Armaroli, Caleffi, Balouin
Cienfuegos, Rodrigo	Analysis of Nonlinear Surf Zone Wave Properties: Random Waves and Complex Bathymetries	Barthelemy, Bonneton, Gondran
Ciriano, Yolanda	Swash Interactions and Generation of Infragravity Motions	Coco, Rota
Clairain, Ellis	Louisiana Coastal Area Ecosystem Restoration Program: Integration of Science and Technology to Address Coastal Wetland Loss	Morgan, Hughes
Clarke, Jonathan	Practical Aspects of the Design and Execution of Renourishment Schemes on Mixed Beaches	McFarland
Clavero, Maria	Experimental Verification of Mound Breakwaters Built with an S-Profile	Benedicto, Mendoza-Baldwin, Silva-Casarin, Ramos, Losada
Coco, Giovanni	The Role of Forcing Variability on the Development of Sorted Bedforms	Murray, Green
Coelho, Carlos	Shoreline Coastal Evolution Model: Two Portuguese Case Studies	Veloso Gomes, Silva
Coeveld, Martijn	Wave Overtopping of Crest Elements on Rubble Mound Breakwaters	Busnelli, van Gent
Cohen, Anna	Beach Wizard: Nowcasting of Coastal Processes through Assimilation of Model Computations and Remote Observations	Aarminkhof, Maintz, Klein, Roelvink, Reniers
Coli, Alexandre	Inverse Methodology for Coastal Wave Data Assimilation	Santos, Pires-Silva
Consuegra, Rafael	Combined Topo-Bathymetry, Morphology, and Ecological Mapping as a Tool for the Implementation of Integrated Coastal Zone Management Policies	Moreno
Cox, Daniel	Physical Model Study of Intensity-based Tsunami Inundation over Complex Bathymetry and Topography	Ichikawa, Bsigard, Lynch
Cox, Ronald J.	Wave-Induced Set-Up and Current in Presence of Submerged Breakwaters	Tajziehchi
Cuomo, Giovanni	SPH-LES: Two Phase Simulation of Wave Breaking and Wave-Structure Interaction	Panizzo, Dalrymple
Dabees, Mohamed	Contour Line Change Model for Beaches with Nearshore Hard Bottom: Application Case Study in Palm Beach, Florida	Kamphuis

Daemrich, Karl-Friedrich	Irregular Wave Overtopping at Vertical Walls - Learning from Regular Wave Tests	Meyering, Ohle, Zimmermann
Dally, William	High Resolution Measurement of Directional Wave Spectra in Deep Water	
Dalrymple, Robert	Waves on a Compressible Fluid	Rogers
Darnell, Joel	Fringe Benefits: Innovative Salt Marsh Creation Approaches in Texas Estuaries	Hauske

PRIMARY AUTHOR	PAPER TITLE	COAUTHOR(S)
Davey, Thomas	Use of Importance Sampling Methods in the Derivation of Extreme Responses of Coastal Structures	Bruce, Allsop
De Girolamo, Paolo	Numerical Simulation of Three Dimensional Tsunamis Water Waves Generated By Landslides	Wu, Liu, Panizzo, Bellotti, Di Risio
de Jong, Martijn	Characteristics of Seiches During Extreme Storm Conditions	Dekker, Kan
de la Casa, Angel	Wetland Recuperations: Experiences in the Gulf of Cadiz (Southwest Spain)	Fages, Gomez Pina, Moreno, Munoz-Perez
de Looft, Arjan	GOLFKLAP: Model to Determine the Impact of Waves on Dike Structures with a Thick Asphalt Concrete Layer	Montauban, van de Ven
de los Santos, Francisco J.	Irregular Wave Runup and Overtopping on Revetments and Cobble Beaches	Kobayashi, Losada
De Vos, Leen	Damage Development in Scour Protections around Offshore Monopiles under Combined Wave and Current Attack	De Rouck, Troch
De Wolf, Peter	Beach Nourishment at Ostend, Belgium: Design, Monitoring, and Modelling	Verwaest, Gysens, Trouw, Martens, De Rouck
Dean, Robert G.	Coastal Engineering Evaluation of Sebastian Inlet, Florida	Woodruff
Decapio, Vincent P.	Experimental Study on the Three-Dimensional Landslide Generated Waves	Liu, Wu
Deguchi, Ichiro	Characteristics of Rip Current on Large Cusp	Araki, Takeda, Yoshii
Deigaard, Rolf	Instability of a Coastline with Very Oblique Wave Incidence	Uggicioni, Fredsøe
D'Eliso, Claudia	Breaching of Coastal Dikes Induced by Wave Overtopping	Oumeraci, Kortenhaus
Deng, Dong-Sheng	Numerical Model for Wave-induced Pore Pressure and Effective Stress in a Porous Seabed Around the Head of a Breakwater	Li
Dennis, William	Shoreline Response to Revetment Construction -- A Decade of Monitoring at Fort Fisher, NC	
Dijkstra, Jasper	Modelling Hydrodynamics in Eelgrass Beds at Zostera Marina	Stive
DiRamos, Inocencio	Sediment Transport Modeling for Morro Bay Restoration	Wu, Shak, Blasberg
Di-Risio, Marcello	Laboratory Investigation on Wave Overtopping of Composite Breakwaters: The Port of Civitavecchia Case	Beltrami, De-Girolamo
Dissanayake, Pushpa Kumar	Effect of Bed Roughness Formulations on Morphology in the Western Scheldt Estuary, The Netherlands	Roelvink, Van Ormondt
Divoky, David	Response-Based Coastal Flood Analysis	McDougal
Donnelly, Chantal	Morphology Change by Overwash: New Laboratory Experiments and Field Data	Wamsley, Kraus, Magnus Larson, Hanson
Dorst, L. L.	Estimation of Parameters for Sand Wave Dynamics from Bathymetric Surveys in a Southern Area of the North Sea	Roos, Hulscher
Douglass, Scott	Coastal Road Damage	Keith
Drei-Horgan, Elena	State of the Art Coastal Flood Hazard Analyses for the U.S. Virgin Islands	Gangai, Usher
Drullion, Frederique	Three-Dimensional Modeling of Phase Averaged Alongshore Currents	Slinn
Dykstra, David	Tsunami Propagation into the Ports of Los Angeles and Long Beach	
Edge, Billy	Active Absorption of Waves in a Three-Dimensional Basin	Romijnders, Thurlow
Edwards, Kacey	A Hybrid Model for Nearshore Nonlinear Wave Evolution	Veeramony, Kaihatu
El Asmar, Walid	Finite Volume Solution of Boussinesq-Type Equations on an Unstructured Grid	Nwogu
Elfrink, Berry	New Coastal Protection Scheme at Marataizes, Brazil	Accetta, Mangor
Elias, Edwin	Process-based Modelling of Tidal Inlets	Stive
Elwany, Hany	Alternative Designs for the Relocation of the San Elijo Lagoon Inlet	Marvan

Endo, Toru	Numerical and Experimental Study of New Breakwater Promoting Vertical Circulation Flow	Shigematsu
Erkison, Li	Swash Zone Characteristic at Ocean Beach	Gibbs, Barnard, Hanes
Ernstsen, Verner B.	Dune Dynamics During a Tidal Cycle in a Tidal Inlet Channel of the Danish Wadden Sea	Noormets, Winter
Esaki, Keiji	Confirmation of Sliding Stability on Long Footing Caisson	Takayama, Yasuda
Escobar, Carlos Alejandro	Bedform Features in Tidal Channels of the Dithmarschen Bight	Mayerle
Ewing, Lesley C.	Coastal Engineering Efforts to Support Emergency Response to Tsunamis in California	Realyvasquez, Sandy, Magoon
Falqués, Albert	Testing High Angle Waves Instability on a Low Energy Beach	Medina, Gonzalez
Faraci, Carla	Statistical Sensitivity of Roughness in the Presence of Ripples	Foti

PRIMARY AUTHOR	PAPER TITLE	COAUTHOR(S)
Fassardi, Claudio	Definition of Wave Setup and Runup Using a Response-Based Approach	
Fernandez de Ybarra, Odulia	Sources of Long Wave Oscillations Inside a Harbor: Case Study of the Port of Gijon	Gonzalez-Marco, Moyano, Sanchez-Arcilla, Sierra
Fernandez, Pedro	Beach Improvement Using Recycled Coastal Structures	Popovic, Treadwell, Magoon, Noble
Figueroles, Miguel	Estimation of Incident and Reflected Waves Using Multiple Sensors	Medina
Finkl, Charles	Impacts of High Energy Events on Sediment Budgets, Beach Systems and Offshore Sand Resources along the Southeast Coast of Florida	Benedet, Andrews
Fortunato, André	Uncertainty in Morphodynamic Simulations of Tidal Inlets	Oliveira
Frandsen, Jannette	Free-surface Predictions in Shallow Water using Methods of Lattice Boltzmann, SPH and Particle Finite Elements	Iglesias, Delorme, Celigueta, Onate
Fritz, Hermann M.	Far Field Surveys of the Indian Ocean Tsunami: Sri Lanka, Maldives, Madagascar, Oman, and Somalia	Okal, Borrero, Synolakis
Fuhrman, David R.	Numerical Simulation of Extreme Events from Focussed Directionally Spread Wavefields	Madsen
Fujii, Hidekazu	Slow Drift Oscillations of a Large Vessel in a Rectangular Harbor	Kimura
Furuike, Kou	Model for Predicting Dynamic Changes in a River Mouth Bar	Uda, Serizawa, San-nami
Gadd, Peter	Use of "Statistical" Depth of Closure to Resolve Historical Changes in Bathymetric Data and Shorezone Volume in the Huntington Beach (CA) Littoral Cell	Leidersdorf, Hearon, Shak, Ryan
Gallagher, Edith	Grain Size from Digital Images and Morphological Variability	Russell, Masselink, Auger
Galofre, Jordi	Influence of Marina Construction on Adjacent Beaches: Case Study of 'Roda de Bara'	Medina, Mauricio, Montoya
Garnier, Roland	Modeling Ridge and Runnel System Development from an Intertidal Shore Parallel Bar	
Garrido, Joaquín M.	Study of Reflection of Perforated Vertical Breakwaters	Medina
Garrity, Nicholas	Evaluation of Event and Response Methods to Define the 100-Year Coastal Flood Event For Pacific Coast Sheltered Waters	Battalio, Hawkes, Roupe
Geeraerts, Jimmy	Reduction of Wave Overtopping at Seadikes: Stilling Wave Basin	De Rouck, Beels, Gysens, De Wolf
Gencarelli, Rosanna	Long Term Prediction of Extreme Wave Heights Based on the Use of the Spread Parameter	Tomasicchio, Veltri
Ginter, Deirdre	Beach Processes and Engineering Solutions at Barrow, Alaska	King
Gislason, Kjartan	Numerical Modelling of Scour in Front of a Breakwater	Fredsøe, Sumer
Glamore, William	Coastal Groundwater Intakes: Numerical Modelling of Coastal Wells for Desalination Source Water	Anderson, Timms
Goethel, Oliver	Numerical Modelling of Scour at Offshore Wind Turbines	Zielke
Gómez-Gesteira, Moncho	Study of Coastal Area Protection within the Framework of SPH3D Method	Crespo, Dalrymple
Gomez-Martin, Maria Esther	Damage Progression on Cube Armored Breakwaters	Medina
Gomez-Pina, Gregorio	Critical Review of Beach Restoration Projects in the Northern Coast of Cadiz (Spain) After Thirteen Years	Fages, Ramirez, Muñoz-Pérez, Enriquez

González-Escrivá, Jose A.	The Role of Wind in Wave Runup and Overtopping of Coastal Structures	
Gonzalez-Marco, Daniel	Relative Weight of Runup, Setup, and Storm Surge on Beach Flooding in the Ebro Delta	Alsina, Sanchez-Arcilla, Gomez, Caceres
Grandon, Jane	Design of the Upper Newport Bay Ecosystem Restoration Project, Orange County, CA	Murphy, Brodeur, Rossmiller
Gravens, Mark	Physical Model Investigation of Morphology Development Behind Headland Structures	Wang, Kraus, Hanson
Griggs, Gary	Regional Approaches to Coastal Protection	Slagel, Carl
Groeneweg, Jacco	Determination of Hydraulic Wave Boundary Conditions for the Dutch Coast	van Ledden
Gruene, Joachim	Stability Tests of Geotextile Sand Containers	Sparboom, Oumeraci, Schmidt-Koppenhagen, Wang
Gunawardena, Yohama	Prediction of Beach Morphological Changes using a Data-based Mechanistic Approach	Suzana, Pinkerton, Romanowicz

PRIMARY AUTHOR	PAPER TITLE	COAUTHOR(S)
Haas, Kevin	Video Observations of Longshore Currents Near Myrtle Beach, SC	Cambazoglu
Hague, Caroline	Boundary Element Solution Applied to the Description of Extreme Waves in Coastal Waters	Swan
Hajivalie, Fatemah	Beris Fishing Port: Interfering in the Equilibrium Shape of a Bay	Soltanpour
Hales, Lyndell	Monitoring Effectiveness of Coastal Structures Maintained by the U.S. Army Corps of Engineers	
Hall, Jim	Robust Risk-Based Decision Making for Dike Replacement, Including Sea Level Rise Uncertainty	Dawson, Reeder, Sayers, Gouldby
Hall, Kevin	Innovative Approaches to Bio-engineered Shorelines in the Coastal Zone	
Hanson, Hans	Shoreline Response to Detached Breakwaters and Tidal Current: Comparison of Numerical and Physical Models	Gravens, Kraus
Hanzawa, Minoru	Fully Reinforced 80 Ton Dolos and Sloping Top Caisson in Hososhima Port	Kishira, Ozawa, Hidaka, Maeda, Shibasaki
Hapke, Cheryl	Comparative Analysis of Regional Beach and Coastal Cliff Erosion Rates in California	Reid, Green
Harley, Mitchell	Assessing the Accuracy and Applicability of a Multi-decadal Beach Survey Dataset	Turner, Short, Ranasinghe
Hashimoto, Noriaki	Application of Adjoint WAM to NOWPHAS Wave Observation Data for the Purpose of Establishing Reasonable Wave Observation Networks	Matsuura, Nagai, Kawai
Hatanaka, Katsumori	Development of the Low-Cost Bathymetry System for Coastal Management by Fishing Echo Sounders and Sensor Network Technologies	Wada
Hatipoglu, Figen	Suction Removal of Sediment from between Armor Blocks in Waves	Sumer, Fredsøe
Hatton, Kimberly	Vertical Pile Scour Induced by Random Free Surface Gravity Waves	Foster
Hays, Jessica	Construction Challenges and Techniques at Kaunalapau Breakwater, Lanai, Hawaii	Smith, Sullivan
He, Liang	Video-based Particle Image Velocimetry of a Laboratory Rip Current	Puleo
He, Qing	Sediment Transport Processes in Deep Water Navigation Channel, Yangtze Estuary, China	Wang, Yu
Headland, John	Effect of Tsunamis On Moored/Maneuvering Ships In Ports	
Hearon, Gregory	San Diego County's Beach Sand Project - Monitoring Methods and Results	Craig, Rundle, Hollar
Heilman, Daniel	The Closure Depth Paradox: Implications for Sediment Budget at South Padre Island, Texas	Darnell, Mahoney
Helgason, Einar	Comparison Between Overtopping Discharge in Small and Large Scale Models	Burcharth
Henriquez, Martijn	Integral Artificial Surf Reef Design	Van Ettinger, Jansen, Reniers, Stive

Herman, Agnieszka	Mid-term Wave and Current Modelling for a Mesotidal Wadden Sea Coast	Kaiser, Niemeyer
Herrington, Thomas	Characteristic Shoreline Change Patterns Identified Using EOF Analysis	Miller, Dean
Hesser, Tyler	Modeling Sediment Transport under Breaking Waves - Crosstex Modeling	Slinn
Hibino, Tadashi	Settling and Reproduction of Floating Mud on the Sea Bottom	Takamido, Matsumoto
Holmedal, Lars Erik	Sea Bed Boundary Layer Streaming	Myrhaug
Holthuijsen, Leo	Wave Steepness and Depth-Induced Wave Breaking in SWAN	Vink, van der Westhuysen, Booij
Honda, Kazuhiko	Formulation and Application of Frequency-Domain Nonlinear Wave Transformation Model Incorporating Incident and Reflected Wave Coupling	Mase
Horn, Diane	Measurement of High-frequency Bed Level Changes in the Swash Zone using Photo-electronic Erosion Pins (PEEPs)	Lane
Hotta, Shintaro	Wind-tunnel Study of Vertical Distribution of Sand Transport Rate by Wind	Kubota
Hovestad, Martijn	Breakwaters on Steep Foreshores	Klabbers, Verhagen
Hsiao, Shih-Chun	Long Wave Generated by Nonlinear Waves on Sloping Beach	Hwung, Chiang

PRIMARY AUTHOR	PAPER TITLE	COAUTHOR(S)
Hsu, John R-C.	Methodology of Shore Protection in Taiwan at the Crossroads	Chu, Huang, Liao
Hsu, Tian-Jian	On Modeling Boundary Layer and Gravity-Driven Fine Sediment Transport	Kineke, Traykovski
Hughes, Steven	Laboratory Measurements of Wave Forces on Heavily Overtopped Vertical Wall	Winer, Blodgett, Seabergh
Hughes, Zoe	Assessing the Impact of Ferry Boat Wakes on Shoreline Erosion in Boston Harbor, MA	FitzGerald, Rosen
Hur, Dong-Soo	Numerical Analysis of Fully Nonlinear Interaction between Water Waves and Submerged Tunnel	Kim, Kee
Hussain, Mohammad	Numerical Simulation of Residual Currents in a Semi-enclosed Bay	Isobe, Koibuchi
Hwang, Kao-Shu	Large Scale Experiments on the Deformation and Run-Up of Solitary Waves on a 1:20 Slope	Hwung, Chen
Ikeno, Masaaki	Effects of Soliton Fission and Wave Breaking on Tsunami Force Acting on Breakwater	Matsuyama, Sakakiyama, Yanagisawa
Irish, Jennifer	Role of Wave Setup in Predicting Back-Bay Storm Water Levels: Long Island, New York, USA	Canizares
Irschik, Kai	Effect of Breaker Types on Breaking Wave Loads on a Slender Vertical and Inclined Pile	Oumeraci
Ismail, Hadibah	Laboratory Investigations on Wave-Structure Interactions of an Artificial Mangrove Root System (ArMS)	Abdul Wahab, Fatimah
Jackson, Leslie	Failure Modes and Stability Equations for Design of Sand Filled Geosynthetic Units in Coastal Structures	Corbett
Janssen, Tim	A Stochastic Model for Nonlinear Waves Over Two-Dimensional Topography	Herbers, Battjes
Javier L., Lara	Numerical and Experimental Investigation of Wave Interaction with Overtopped Vertical Breakwaters	Losada, Vidal
Jedrzejczak, Marcin-Filip	Bridging Biodiversity and Tourism towards Sustainable Development of Sandy Beaches	
Jensen, Jacob Hjelmager	Morphological Modeling of a Danish Tidal Inlet	Broeker, Christensen
Jensen, Jürgen	Estimation of Extreme Water Levels as a Tool for Disaster Management	Mudersbach, Müller-Navarra, Bork
Jimenez, Jose A.	Sediment Transport and Barrier Island Changes during Massive Overwash Events	Sallenger, Fauver
Johnson, Bradley	Sediment Transport and Acceleration in the Surf and Swash Zones	Smith
Johnson, Hakeem	Process-based Morphological Modeling at Tidal Inlets	Fiere
Johnson, Jeffrey	Subsidence of the King Harbor Breakwater at Redondo Beach, California, USA	Elwany, Dill, Flick, Marshall
Jonkman, Sebastiaan	Simulation of the 1953 Storm Surge Flood in The Netherlands and its Consequences	Huizinga, Vrijling

Jung, Kwang Hyo	Urban Beach Restoration: Haeundae Beach, Pusan, Korea	Yoon, Edge
Kaiser, Ralf	Effect of Barrier Island Morphology on Tidal Basin Wave Climate	Niemeyer
Kakinoki, Tetsuya	Suspended Sediment Diameter Distribution on Rippled Beds Under Regular Waves	Tsujimoto
Kakinuma, Taro	Numerical Analysis of Tsunami Generation due to Seabed Deformation	Akiyama
Kamikubo, Yuji	Effect of Wind on Water Spray and Wave Overtopping Generated above Flaring Shaped Seawall	Murakami, Irie, Hata
Kamphuis, William	Beyond the Limits of Coastal Engineering	
Kaplan, Marcus	The Effects of Land-Use Changes and Coastal Protection Measures on Vulnerability of Communities to Natural Hazards in Coastal Areas of Sri Lanka	Renaud, Schlurmann
Kashima, Hiroaki	Temporal-spatial Relationship between Air Bubbles and Turbulence in the Surf Zone	Mori, Kakuno
Kato, Fuminori	Wave Force on Coastal Dike Due to Tsunami	Inagaki, Fukuhama
Kato, Shigeru	Numerical Simulation of Coastal Current, Sediment Transport and Topography Change in Coasts facing the Japan Sea	Yamashita
Katsardi, Vasiliki	Importance of Directionality in the Evolution of Large Waves in Intermediate and Shallow Water Depths	Swan

PRIMARY AUTHOR	PAPER TITLE	COAUTHOR(S)
Kawai, Hiroyasu	Improvement of Stochastic Typhoon Model for the Purpose of Simulating Typhoons and Storm Surges under Global Warming	Hashimoto, Matsuura
Kawanisi, Kiyosi	Characteristics of Suspended Sediment Transport and Variability of Tidal Flat Sediment in a Tidal River	Tsutsui
Kawasaki, Koji	Numerical Analysis of Time-Changing Wave Force Acting on Drifting Rigid Structure with Solid-Gas-Liquid Phase Flow Model	Hakamata
Kelley, Sean	Shoreline "Hot Spot" Development due to Sand Mining Offshore Jupiter Island Florida: An Application of the Spatial and Temporal Variations Approach of Determining Borrow Site Impacts	Ramsey
Kendall, Thomas R.	California Harbors: Where Does the Sand Go?	Cole, Garcia
Kennedy, Andrew	Stability and Instability of Nearshore Circulation Cells	Zhang
Kerper, Dale	FEMA Guidelines for Coastal Flood Hazard Mapping: Test of Alternative Methodologies	Sakumoto, Zyserman
Khalil, Syed	Restoration of Louisiana Barrier Islands: Engineering Approaches to Hazard Mitigation by Modulating Coastal Morphosedimentary Environments	Knotts
Khayrer, Abbas	Numerical Study of Turbulence Dynamics in Surf Zone Plunging and Surging Breaking Waves	Yeganeh, Gotoh, Sakai, Ghaheri
Killian, Jason	Optical Remote Sensing of Radiation Stress Gradients	Holman
Kim, Sang-Ho	A Strictly Combined BEM-VOF Method for Calculation of Wave Motion	Yamashiro, Yoshida, Hashimoto, Yan
Kim, Tae-Min	Computational Reproduction of Caisson Sliding Failure due to Typhoon Tokage	Yasuda, Mase, Takayama
King, David	Dependence of the CERC Formula K Coefficient on Grain Size	
Kirby, James	Parameterizing Erosional and Depositional Behaviour on a Laboratory Beach: The CROSTEX Experiment	Teran Cobo, Haller, Ozkan-Haller, Magalen
Kirkegaard, Jens	Coastal Impact of Large Wave Power Plant	Mangor, Jensen
Kjima, Shoichiro	Observation of the Kuroshio Current in the Southwest East China Sea by Long-Range Ocean Radar	Sato
Klabbers, Martijn	Reconstruction of Port Oriel Breakwater: First XBLOC Application in Europe	McConnel, McAllister
Klaver, Elwyn	Probabilistic Analysis of Typhoon Induced Hydraulic Boundary Conditions for Suo-nada Bay	Jonkman, Van Gelder, Vrijling, Kawai
Klein Breteler, Mark	Influence of Wave Steepness on Stability of Placed Block Revetments	Hart, Stoutjesdijk
Klein, Antonio	Morphodynamics of Headland-Bay Beaches: The Coast of Santa Catarina State, Brazil	Ferreira, Alveirinho Dias

Klein, Mark	Morphodynamic Impact of Shoreface Nourishments on Rhythmic Surf Zone Morphology	Schuttelaars, Stive
Knotts, Christopher	Restoration of Louisiana's Barrier Islands - Evaluation and Analyses	Grandy, Khalil
Knudsen, Soeren Bjerre	Prediction of Dune Erosion through Monitoring of Coastline Fluctuations by Use of Satellite Photos	Madsen
Kofoed, Jens Peter	Vertical Distribution of Wave Overtopping Rates for Design of Multilevel Overtopping-based Wave Energy Converter	
Kohlmeier, Martin	Influence of Irregular Wave Kinematics Descriptions on Fatigue Analysis of Offshore Wind Energy Structures	Mittendorf, Irschik
Kohno, Tetsuya	Experimental Study on Generation and Propagation Process of Waves Generated by Particle Motion on Slope	Shigematsu, Koike
Kolomiets, P.	Numerical Modeling of Passing Vessel Wakes Impact on Berthed Vessels and Shoreline	Fenical, Kivva, Zheleznyak
Komai, Katsuaki	Generation and Propagation Forecast of Storm Surge in the Seto Inland Sea, Japan	Hibino, Matsumoto
Kosyan, R.	Peculiarities of Instantaneous Vertical Distribution of Suspended Sediment in the Surf Zone	Krylenko
Kraus, Nicholas	Shoreline Evolution in a Groin Field by Reservoir Model Approach	
Krynock, Laurel	Morphological Modeling For Structural Improvements Along A Shoreline Erosion Hotspot	Martin, Sleath, Elkan, White, Rosenberg

PRIMARY AUTHOR	PAPER TITLE	COAUTHOR(S)
Kuchiishi, Takayuki	Prediction Technique of 3D Beach Evolution Using a Coastal Area Model and Field Verification	Kuroiwa, Matsubara, Matsubara
Kudella, Matthias	Development of Residual Pore Pressure in the Sandbed Beneath a Caisson Breakwater	Oumeraci
Kumada, Takayuki	Model for Predicting Composition Changes of Grain Size of Bed Materials	Uda, Serizawa, Noshi
Kuriyama, Yoshiaki	Morphological Changes around Large-Scale Submerged Breakwater on the Niigata Coast, Japan	Yamaguchi, Ikegami, Takano, Tanaka
Kuroiwa, Masimitsu	A Quasi Three-Dimensional Coastal Area Model with Shoreline Changes for Mixed-Size Sands	Kuchiishi, Matsubara, Noda
Kuroki, Keiji	Beach Erosion and Its Countermeasures along the Southern Romanian Black Sea Shore	Goda, Stanica, Dan, Diaconeasa, Matei
Ladage, Florian	Interaction of Large-scale Groynes and Tidal Inlet Migration	Stephan, Niemeyer
Lafon, Florence	Estimation of Extreme Wave Conditions from Hindcast Simulations	Benoit
Lai, Ching-Piau	Metal TMDL Modeling for Ballona Creek in California	Becker
Lambert, Adrian	Water Table Monitoring on a Beach Equipped with a Beach Dewatering System: Relationship between Water Table Elevation and Beach Morphology	Rey, Olivier, Sabatier, Provencal
Lamberti, Alberto	Overtopping and Wave Transmission: Interpretation of Spectral Changes at Low-crested Rubble Mound Structures	Zanuttigh, Martinelli
Lane-Serff, Gregory	Modelling Deposition of Cohesive Sediment	
Lansen, Joost	SWAN Freak Wave Estimator in the Agulhas Current	Holthuijsen, van der Westhuysen
Larson, Magnus	Sediment Storage and Transfer in Large-Scale Coastal Evolution Models: Simulating Subaerial Morphological Response and Inlet Shoals	Kraus
Le Dissez, Aurélie	New Two-Dimensional Model for Shallow Tidal Flows Applied to the	Sottolichio, Vincent
Lee, Changhoon	Highly Accurate Prediction of the Transformation of Multi-Directional Waves Reflected from Coastal Structures	Kim, Cho
Lee, Eun-Sug	Prediction of Wave Overtopping on Coastal Structures by Using Extended Boussinesq and SPH Models	Violeau, Benoit, Issa
Lee, HanSoo	Hindcast of Abnormal High Waves in Japan/East Sea by MM5-WW3 Coupled Numerical Model with Depression Bogussing	Kim, Yamashita
Lee, Hyun-seok	Estimation of Time-Dependent Wave Setup Height in a River Entrance	Tanaka
Lee, Jin-Jen	Assessing Impacts of Tsunamis on Taiwan and China's Southeast Coastlines	Lai
Lee, Jung Lyul	Hurricane Wave and Surge Forecasting System in Hawaii	Teng

Lee, Tingqui	Numerical Study of Coupling Waves with a Current on a Cut Cell Mesh	Troch, De Rouck
Leidersdorf, Craig	Strudel Scour Formation off an Arctic River Delta	Hearon, Swank
Lent, Linda K.	Economics of Structural Alternatives in Tsunami Mitigation	Edge, Treadwell, Magoon
Liang, Qiuhua	Numerical Study of Hydrodynamics on Offshore Wind Turbine Foundations	Zang, Borthwick
Lillycrop, Linda S.	Application of the Beach-fx Model for the Walton County, Florida Beach Nourishment Project	Gravens, Moseby, Moser, Miles
Lim, Ho-Joon	Velocity and Void Ratio Measurements in Aerated Region of Breaking Waves Using Bubble Image Velocimetry and Fiber Optic Reflectometry	Chang
Lim, Sin Hwei Lydia	Experimental Study of the Plunging Wave Process	Chan
Lima, Savio	Influence of Plant Motion on Wave Damping through Fields of Vegetation	Neves, Rosauero
Lin, Jianguo	Numerical Model of Higher-order Boussinesq Equations and Experimental Validation	Zhou, Xie
List, Jeffrey	Predicting Longshore Gradients in Longshore Transport: Comparing the CERC formula to a Process-based Model in North Carolina	Hanes, Peter
Liu, Haijiang	Numerical Study on Sediment Movement under 2nd-order Stokes Sheetflow Conditions	Sato
Long, Joseph	A New Look at Wave Group Induced Nearshore Circulation	Ozkan-Haller
Long, Wen	Cross Shore Sand Bar Migration Predicted by a Time Domain	Kirby, Hsu
Lowe, Jeremy	Coastal Inundation - Modelling of Wave Overtopping Bore Heights and Velocities	Allsop, Alderson, Pullen, Wright, Dodd
Lu, Shawn	Deltaport: Third Berth Project Design and Construction Criteria	Alcorn

PRIMARY AUTHOR	PAPER TITLE	COAUTHOR(S)
Lubin, Pierre	Large Eddy Simulation of Regular Waves Breaking Over a Sloping Beach	Branger, Kimmoun
Luger, Stephen	Morphodynamic Modelling for Design of Beach Restoration Project	Schoonees, Soltau, Prestedge, McClarty
Lupoi, Giorgio	Wave Induced Loads Risk Assessment of Coastal Structures	Cuomo
Lynett, Patrick	Large-Scale Simulation of Nearshore Waves and Currents with Boussinesq Equations	
MacArthur, Robert	Wave Processes in Nearshore Environment for Hazard Identification	Dean, Battalio
MacDonald, Neil	Particle-based Sediment Transport Modeling	Davies
MacMahan, Jamie	Inexpensive Lagrangian DGPS Drogues	Thornton
Maddux, Timothy	The Cross-Shore Sediment Transport Experiment (CROSSTEX)	Cowen, Foster, Haller, Stanton
Maderich, Vladimir	3D Non-hydrostatic Modeling of Bottom and Bank Stability Subjected by Ship Propeller Jets	Kanarska, Fenical, Terletska, Brovchenko
Mai, Stephan	Climate Change and Safety of Coastal Islands	Elsner
Males, Richard	Beach-fx: Implementation of a Life-Cycle Risk Analysis Approach to Hurricane Storm Damage Reduction Project Evaluation	Gravens, Moser, Rodgers
Mangor, Karsten	General Guidelines for Good Quality Artificial Beaches and Case Stories	
Manso, Faustino	Dredging on Microtidal Coasts: Monitoring Sediment Dynamics and Evaluation of Possible Effects to the Coastline	Winter
Marche, F.	A Simple and Efficient Well-Balanced Scheme for 2D Bore Propagation and Run-Up Over a Sloping Beach	Bonneton
Margheritini, Lucia	Scour Around Large Diameter Monopile Foundation for Offshore Wind Turbine in Presence of Steady Currents and Tide	Frigaard, Martinelli, Lamberti
Marshall, Neil	Artificial Kelp Reef Site Selection	Norall, Grove, Elwany
Martens, Chantal	Lifetime Estimation of Beach Nourishments Along the Belgian Coast	Verwaest, Spanhoff, De Wolf, Gysens, Trouw
Marth, Reinhard	Two-Dimensional Effects of Wave Generated Impact Pressures	Müller, Hinkelmann, Wolters

Martin, Johnny	Shoreline Revitalization in Norfolk, Virginia, USA	Krynock, Sciaudone, Shelden, White, Rosenberg
Martinelli, Luca	Analysis of the Renaturalisation Project at Igea Marina Beach, Italy	Zanutigh, Lamberti, De Nigris
Martino, Eva	Analysis of the Structural Behaviour of Submerged Breakwaters	
Mason, Travis	Predicting Extreme Storm Events in the Eastern English Channel	Bradbury
Matsumi, Yoshiharu	Spatial Distribution of Wave Overtopping along Seawall in Multidirectional Waves	Ohno, Kimura
Matsutomi, Hideo	Governing Equations for Inundated Flow in Vegetated Area and Similarity Laws for Trunk	Ohnuma, Suzuki, Imai
Mauriet, Sylvain	Two Dimensional LES Numerical Simulations of the Swash Zone Hydrodynamics	Abadie, Bonneton, Lubin, Mory
May, Vincent	Sustainable Management of a High Value Coast at Risk from Flooding, Erosion, and Intense Use	
McCarthy, Michael	Bolsa Chica Lowlands Restoration Construction and Inlet Opening	Martin, Sciaudone, Morris
McGehee, David	Large Amplitude Seiche in St. Joseph Bay, Florida - Observations and Implications	
Mead, Shaw	Innovative Coastal Protection at Oil Piers, Ventura (USACE Section 227 Demonstration Program)	Black
Medina, Josep	Transmission and Reflection of Modular Detached Breakwaters	Muñoz, Gomez-Pina
Medri, Silvia	Video Monitoring of Intertidal Beach Topography in a Protected Area: The Case of Lido di Dante	Gattavecchia, Lanberti, Archetti
Melito, Ivano	Field Measurements of Harbour Resonance at Marina di Carrara	Cuomo, Bellotti, Franco
Memita, Tetsu	Influence of Mach-stem on Wave Overtopping on Seawalls	

PRIMARY AUTHOR	PAPER TITLE	COAUTHOR(S)
Mendez, Fernando J.	An Extreme Value Model for Wave Climate Considering Duration and Seasonality	Menendez, Luceño, Medina
Mesa, Chuck	On the Comparison of Visually Observed and Predicted Waves at San Clemente, CA, USA	
Meselhe, Ehab	Water and Sediment Budget Analyses for the Chenier Plain	Habib, Rego, McCorquodale, Georgiou, Twilley, Nyman
Mewis, Peter	Nearshore Morphodynamic-numerical Computation of the Influence of Harbor Jetties	
Michalsen, David	Potential Physical Impacts of a Littoral Drift Restoration Project: Mouth of the Columbia River, USA	Moritz, Moritz
Milbradt, Peter	Propagation of Potential Tsunami Waves in the North Sea	Schüttrumpf, Lehfelddt
Militello, Adele	Natural Sand Bypassing and Response of Ebb Shoal to Dredging, Evaluated by Numerical Simulation, Ocean City Inlet, MD	
Miller, Jon	Engineering Scale Model for Predicting the Shoreline Response to Variations in Waves and Water Levels	Dean
Ming, Susan	An Innovative "Super-Regional" Resource Management Initiative -The California's Coastal Sediment Management Master Plan - Federal Perspective	Sumerell, Risko
Mínguez, Roberto	Optimizing Breakwater Design	Castillo, Castillo, Losada
Mirfenderesk, Hamid	Development of a Three-Dimensional Model to Understand a Modified Tidal Entrance Processes	Tomlinson, Szykarski, Rasmussen
Misra, Shubhra	Turbulent Interfacial Boundary Conditions for Numerical Modeling of Spilling Breaking Waves	Shi, Brocchini, Kirby
Mitchell, S. B.	Performance of Tidal Flap Gate Under Rising Sea Level Conditions	Burgess, Tinton
Mittendorf, Kim	Joint Distribution for Wind and Waves for the Design of Offshore Wind Energy Converters	Zielke
Miura, Masahiro	Theoretical Extrapolation of Open Boundary Condition of One-Line Model	Uda, Serizawa, Yasutsugu, Kanda

Mizutani, Natsuki	Fundamental Study of Wind-Driven Current Under Developed Wind Waves	Oh, Hashimoto, Suh
Mizutani, Norimi	Drag and Inertia Forces Due to Tsunami Acting on a Container Resting on Apron	Tomita, Takagi, Miyajima
Mo, Weihua	Numerical Simulation of Wave Impact on Slender Cylindrical Piles	Irschik, Wu, Liu, Oumeraci
Mocke, Gary	Coastal Processes Quantification in Support of a Decision Matrix Approach for Coastal Enhancement Design at Jumeirah, Dubai	Finch, Zyserman, Fernando, Fernando, Smit, Johnson, Ward, Stewart
Mori, Nobuhito	Freak Wave Prediction from Directional Spectra	
Morichon, Denis	River Plume Monitoring Using Two Combined Remote Sensing Techniques	Dailloux
Moritz, Hans	Observations of Cross Shore Infragravity Energy and Related Pulsating Bottom Currents at Mouth of Columbia River, USA	Gelfenbaum, Kraus
Morris, Bradley	Video-Derived Mapping of Estuarine Evolution	Coco, Turner
Moser, David	Life-cycle Risk Analysis Approach to Hurricane and Storm Damage Reduction Planning	Gravens, Males, Wutkowski, Rogers
Moyano, Jose	Large Scale Bed Forms in the Proximity of Man-made Reflective Structures: Two Cases	Sánchez-Badorrey, de Miguel, Losada
Mudersbach, Christoph	Recent Sea Level Variations at the North Sea and Baltic Sea Coastlines	Jensen
Mueller, Jan-Moritz	Long-term Morphological Evolution of the Tidal Inlet "Norderneyer Seegat"	
Mulder, Jan P. M.	Different Scenarios for Implementation of Large Scale Coastal Policy in The Netherlands	Nederbragt, van Koningsveld, Wang, Steetzel
Muller, Gerald	Confinement Effects in Solid-Fluid Contact Experiments	Wolters
Munoz-Perez, Juan J.	Monitoring of Guadiaro River Spit in Southwest Spain: Problems and Solutions	Tejedor, Gomez-Pina, Fages, de la Casa
Murakami, Keisuke	Mitigation of Tsunami Inundation Disasters by Raising the Crown Height of Existing Seawall	Yamaguchi, Asano
Murty, Tad	Tsunami Numerical Modelling for Hyperbolic (Pacific), Parabolic (Atlantic), and Elliptic (Indian) Oceans	Nistor, Nirupama

PRIMARY AUTHOR	PAPER TITLE	COAUTHOR(S)
Mutsuda, Hidemi	Numerical Simulation Technique for Wave Breaking Using Overset-Soroban Grid System	Tsuneyama, Doi
Muttray, Markus	Wave Reflection and Wave Run-Up at Rubble Mound Breakwaters	Oumeraci
Myrhaug, Dag	Whitecaps: Effects of Wave Age and Atmospheric Stability	Holmedal
Nagai, Toshihiko	Offshore Tsunami Monitoring Network Design using GPS Buoys and Coastal On-site Sensors	Kato, Moritani, Izumi, Terada, Mitsui
Naim, Robert	Evolution of Dredged Pits Offshore Louisiana	Lu, Drucker
Narayanaswamy, Muthukum	Experimental and Numerical Studies of Forced Free Surface Waves	Frandsen, Dalrymple
Nasner, Horst	Prevention of Sedimentation in Brackish Water Harbours	Pieper, Tom, Kuhlenkamp
Newe, Jürgen	Simulation of Beach Profile Evolution under Storm Surge Conditions in Large Wave Flumes	Oumeraci
Nguyen, Tu Trong	Response of Sand Bar at a Jettied River Entrance to Perpendicular Waves	Tanaka
Nichols, Claire	Wave Induced Vortex Shedding over Rippled Beds	Foster
Nielsen, Peter	Sheet Flow Sediment Transport Under Waves with Acceleration Skewness and Boundary Layer Streaming	Callaghan
Nishihata, Takeshi	Topography Change Due to the December 2004 Indian Ocean Tsunami: Field and Numerical Study at Kirinda Port, Sri Lanka	Tajima, Moriya, Skimoto
Noble, Ronald M.	Estimating Eroded Beach Profiles Applicable for the Pacific Coast of the United States	MacArthur, McDougal, Lu
Nonaka, Hirokazu	Intercomparative Study of Extreme Value Analysis Models for Annual Maximum Sample with Historical Information	Yamaguchi
Noshi, Yasuhito	Relationship Between Local Seabed Slope and Grain Size Composition of Bed Materials	Kobayashi, Uda, Kumada, Serizawa
Nurmohamed, Nisa	Weight and Stability Assessment of Single Layers of Orderly Placed or Pitched Natural Rock	van der Meer

Nwogu, Okey	Nonlinear Wave Interaction with Submerged and Surface-Piercing Porous Structures	Demirbilek
O'Donoghue, Tom	Bore-driven Swash on Beaches: Numerical Modelling and Large-Scale Laboratory Experiments	Hondebrink, Pokrajac
Oertel, Mario	Bore Propagation Over a Submerged Horizontal Plate by Physical and Numerical Solutions	Schlurmann, Schlenkhoff
Oh, Sang-Ho	Investigation on the Decomposition of Turbulent Field in the Subsurface Flows of Wind Waves	Suh, Mizutani
Ohmura, Yoshihiro	Wave Set-up Induced Flow in Seawater Exchange Structures with Blockwork Mounds	
Ohtani, Hideo	Inundation Characteristics of Male' Island and Airport Island and the Effects of Seawalls and Detached Breakwaters in the Maldives due to the Indian Ocean Tsunami	Fujima, Tomita, Honda, Shigihara, Nobuoka, Hanzawa, Fujii, Orishimo, Tatsumi, Koshimura
Ojeda, Elena	Bar and Shoreline Coupling in Artificial Embayed Beaches	Guillén, Ribas
Okamoto, Takashi	The Relative Trough Froude Number for Termination of Wave Breaking : Theory and Wave Tank Experiments	Basco, Fortes
Okayasu, Akio	Effect of Sea Level Rise on Sliding Distance of a Caisson Breakwater -- Optimization with Probabilistic Design Method	Sakai
Oki, Kazuya	Incorporation of Wave Transmission and Overtopping Effects into a Multidirectional Random Wave Transformation Model	Mase, Sakai
Oliveira, Anabela	Numerical Modeling of the Aveiro Inlet Dynamics	Fortunato
Olsen, Erik	Application Of Porous ("Leaky") Rock Terminal Structures	
Ono, Nobuyuki	Long-Term Simulation of Coastal Inlet Processes by Advection-Diffusion Transport Model	Militello, Kraus
Orihashi, Tsuneharu	Development of Water-Exchangeable Breakwater with Small Aperture Walls	Kasai, Kakuno, Nobuhito Mori
Ortega-Sanchez, Miguel	Synoptic Predictive Morphodynamic Model for Beach Management: Trafalgar (Spain)	Fachin, Sancho, de los Santos, Losada
Osborne, Philip	Response of Mixed Sediment Beaches to Wake Wash from Passenger Only Fast Ferries: Rich Passage, Washington	MacDonald, Reynolds
Ota, Takao	Irregular Wave Transformation over Deforming Submerged Breakwater	Kobayashi, Kimura
Otay, Emre	Planform and Profile Evolutions of Offshore Dredge Pits Under Nonlinear Waves	Samanci

PRIMARY AUTHOR	PAPER TITLE	COAUTHOR(S)
Oumeraci, Hocine	Scale and Model Effects on Wave Runup and Overtopping of Sea Dikes	Schüttrumpf
Oveysy, Ali	Numerical and Experimental Study on 2-D Horizontal Wave Transformation over Mud Bottom	Soltanpour, Shibayama, Masuya
Overton, Margery	Morphological Evolution of a Shoreline on a Decadal Time Scale	Mitasova, Fisher, Vanderbeke
Oya, Chu-ichi	Model for Predicting Movement of Sand Supplied to Offshore Zone	Uda, Seino, Furuike, Hoshigami
Ozkan-Haller, H. Tuba	Large-scale Experiments on Shoreward Sediment Transport Processes	Haller, Kirby, Magalen, Teran
Palmsten, Margaret	Optical Measurements of Incident and Infragravity Dominated Swash Kinematics	Holman
Panizzo, Andrea	3D-SPH Simulation of Landslide Generated Waves	Cuomo, Dalrymple
Park, Chan Sung	Simulation of Wave-Induced Currents by Nonlinear Mild Slope Equation	Lee
Park, Yong Sung	Interactions between Two Solitary Waves on the Beach	Wu, Wu
Payo-Garcia, Andres	Beach Renourishment Strategies	Kobayashi
Pearce, Andy	Scour at a Seawall -- Field Measurements and Physical Modelling	Sutherland, Muller, Rycroft
Pearson, Jonathan	Laboratory Investigation of Mixing in the Nearshore	Guymmer, Svenstrup Petersen, Karambas
Pedersen, Torstein	Resolving Transformed Wave Directions Near Coastal Structures	Lohrmann, Siegel, Malzone
Pedrozo-Acuña, Adrian	Beach Variability Near Groynes	Reeve, Spivack
Penchev, Valeri	CFD Assisted Design of Reef Breakwaters	Scheffermann

Penko, Allison	Modeling Sand Ripple Evolution Under Wave and Current Boundary Layers	Slinn, Hanes, Rubin
Peregrine, Howell	Water Wave Impact on Walls and the Role of Air	
Petroff, Catherine	Interaction of Breaking Solitary Waves with an Armored Bottom	Raichlen
Petykowski, Chris	Cat Island Chain Restoration, Green Bay	Nairn, Salegean, Barber
Piontkowitz, Thorsten	Risk Analyses of Coastal Flood Defence Systems: Two Case Studies	Kortenhaus, Oumeraci
Piorewicz, Jurek	Trivariate Distributions Applied to Modelling Wave Parameters and High Tide Level	Tickle
Prinos, Panayotis	Wavelet Coherence Analysis for Waves Over Submerged Breakwaters	Zeris, Koftis
Puleo, Jack	Fluid Acceleration in the Swash Zone	Farhadzadeh, Kobayashi
Pullen, Tim	Wave Overtopping at Vertical Walls: Field and Laboratory Measurements of Spatial Distributions	Allsop, Bruce
Qin, Wenkai	Hydrodynamic and Sediment Transport Studies for Yosemite Canal Wetland Restoration Project: San Francisco Bay	Noble, Lue
Quevedo, Elena	Wind-Induced Nearshore Circulation and Morphological Implications on a Natural Beach: Carchuna (Spain)	Ortega-Sanchez, Baquerizo, de los Santos, Losada
Ramsey, John	Quantifying the Influence of Inlet Migration on Tidal Marsh System Health	Kelley, Howes
Ranasinghe, Roshan	Beach Morphology Behind a Submerged Breakwater	Sato
Rapaglia, John	Submarine Groundwater Discharge in the Venice Lagoon: Possible Magnitude and Implications	Garcia-Solsona
Ratcliff, Jay	Hurricane Protection in Coastal Louisiana	
Recio, Juan	Processes Affecting the Stability of Revetments made with Geotextile Sand Containers	Oumeraci
Rees, Jon	Impact of Offshore Windfarms on Coastal Processes: Scroby Windfarm Scour Pits and Scour Tails	
Reeve, Dominic	Bootstrap Resampling For Extreme Wave Heights Implications for Coastal Risks	Li, Sanchez-Arcilla, Gomez
Regis, Jennifer	Three-Dimensional Modeling of Air-Sea Interaction	Slinn
Reintjes, Cynthia	Observations of Shoreline Sandwaves	Ruessink, Holman, Ortega Sánchez
Reniers, Ad	Modeling of Surfzone Generated Infragravity Waves during NCEX	MacMahan, Thornton, Stanton
Richmond, Andrea	Managing Managed Realignment	Banyard, Fish, Jarman
Robertson, William	Shoreline Change and Recovery Caused by Hurricane Charley	Zhang, Leatherman

PRIMARY AUTHOR	PAPER TITLE	COAUTHOR(S)
Rogers, Benedict	Modeling Obliquely Descending Eddies in Breaking Waves Using 3-D SPH-SPS	Dalrymple
Roos, Pieter C.	Finite Amplitude Modeling of Tidal Sandbanks: Evolution of Wavelength and Response to Sand Extraction	
Rosati, Julie	Morphologic Evolution of Subsiding Barrier Island Systems	Kraus, Dean
Rosen, Dov S.	On Selection of Environmental Loading Design Criteria for Nearshore Structures	Kaplan
Ruessink, Gerben	Modeling Cross-shore Sandbar Migration: An Objective Assessment of Prediction Skill and Model Complexity	Kuriyama, Walstra
Ruggiero, Peter	Probabilistic Shoreline Change Predictions	List, Hanes, Gelfenbaum
Rusu, Eugen	The Middle Way of Surf Modeling	Conley
Saitoh, Takehisa	Resonance of Fluid in Narrow Joint Gaps of Caisson-Type Seawall	Miao, Ishida
Sakai, Kazuya	Model for Predicting Three-Dimensional Sea Bottom Topography of Statically Stable Beach	Uda, Serizawa, Kumada, Kanda
Sakakiyama, Tsutomu	Tsunami Inundation Velocities Obtained from VTR in Banda Aceh due to the 2004 Sumatra Earthquake Tsunami	Matsutomi, Nugroho, Tsuji, Murakami
Sana, Ahmad	Modification of K-e Model to Study Oscillatory Boundary Layers	Tanaka, Ghumann
Sanchez-Arcilla, Agustin	Water Renovation in Micro-tidal Environments: Two Case Studies	Espino, Sierra, Rodríguez, Juanola,

Sánchez-Badorrey, Elena	Bottom Boundary Layer Under Standing Regular Wave Groups: Eulerian Drift and BBL Width	Cowen, Bramato, Losada
Savioli, Juan	Which Type of Wave Modelling Approach Should We Apply to Investigate Trained Tidal Inlets and River Mouths?	Hansen, Clark
Sayao, Otavio	Port of Pecem Berm Breakwater Design Post-Construction	Accetta, Pires, Pinto, Freire, Silva
Scarcella, Damiano	Scale Effects in Rubble Mound Breakwaters Considering Wave Energy Balance	Benedicto, Moñino, Losada
Schäffer, Hemming	A Convolution Method for Nonlinear Dispersive Wave Transformation Over Gently Varying Bathymetry	
Schimmels, Stefan	Turbulent Features Beneath Breaking Waves	Zhang, Schlurmann
Schinaia, Stefania Anastasia	Predictive Cellular Automata Modelling for the Recovery of Biological Communities on the Seabed from Dredging Activities	Momiji, Simons, Bishop
Schlosser, Heather	Current and Historic Profile Data Along Los Angeles County, California	Woodell, Shibao, Wu
Schmidt-Koppenhagen, Rein	Tsunami Wave Decay in Nearshore and Onshore Areas	Gruene, Oumeraci
Schmied, Lauren	Cross-shore Suspended Sand Transport on Beaches	Kobayashi, Puleo, Zhao
Schulz, Dirk	Validation of 40-year Water Level Time Series for the Planning of Coastal Structures	Mayerle, Günther, Dankert
Schupiloff, Nik	Numerical Modeling of Tsunami Runup with Different Approaches	Schimmels
Schüttrumpf, Holger	Expert Judgement of Uncertainties in Coastal Structure Design	Kortenhaus, Peters, Fröhle
Scott, Christopher	The Role of Wave Breaking Turbulence in Sediment Suspension Observed during CROSSTEX	Cox, Maddux, Criswell, Irving
Seabergh, William	Spur Jetty Design at Coastal Inlets	
Serizawa, Masumi	Three-Dimensional Model for Predicting Beach Changes based on Bagnold's Concept	Uda, San-nami, Furuike
Shak, Arthur	Updated Sediment Budget for Santa Monica Bay Over the Past 70 Years	Shibao, Wu
Shanehsazzadeh, Ahmad	An Event-Based Model for the Study of Sediment Transport in the Swash Zone	Holmes
She, Kaiming	Recharge of Mixed Sand and Gravel Beaches	Horn, Canning, Thomas
Sheremet, Alexandru	Nonlinear Wave Propagation Over a Shallow Muddy Shelf	Mehta
Shi, Fengyan	Quasi-3D Nearshore Circulation Equations: a CL-Vortex Force Formulation	Kirby, Haas
Shibaki, Hidenori	Characteristic of Abnormal High Storm Surge on the Coasts Facing the Open Sea	Kim, Suzuyama
Shibayama, Tomoya	Disaster Survey of Indian Ocean Tsunami and Its Application to Disaster Prevention	Okayasu, Sasaki
Shin, Sungwon	Wave Transformation, Impact, and Overtopping on a Rubble Mound Breakwater: Large Scale Measurements and Numerical Model Comparisons	Cox, Lin, Yim

PRIMARY AUTHOR	PAPER TITLE	COAUTHOR(S)
Short, Andrew	Shoreline Erosion in Response to Extreme Events: Southeast Australia	
Sigurdarson, Sigurdur	Wave Height Limits for the Statically Stable Icelandic-type Berm Breakwater	Smarason, Viggosson
Silva-Casarin, Rodolfo	Monitoring Shoreline Changes Using Robotic Video at Cancun Beach, Mexico	Marino-Tapia, Mendoza-Baldwin, Wong Munoz
Simarro, Gonzalo	Nearshore Sandbar Migration	Orfila, Liu
Simmonds, David	A Risk Based Framwork for Predicting Long-term Beach Evolution	Davidson, Reeve, Chadwick, Dong, Spivack
Sitanggang, Khairil Irfan	Towards Development of a Boussinesq -- RANS VOF Hybrid Wave Model	Lynett, Liu
Smit, Marije	Modelling Nonlinear Nearshore Dynamics of a Barred Coast: Palm Beach, Florida	Reniers, Symonds, Ruessink
Smith, Eric	Design of T-Groin Protection System for Recreational Beach, Coney Island, New York	Rahoy, Yang, Cornett, Headland
Smith, Geoffrey Grant	Monitoring and Modelling Turbid Plumes and Shoreline Effects Resulting from Nearshore Mining with a Dredger	Soltau, Viljoen, Weitz, Maartens, du Preez

Smith, Heather	The Role of Turbulent Fluctuations on the Scour of a Short Cylinder	Foster
Smith, Jane M.	Improved Shallow-Water Spectral Wave Modeling	Resio
Soldini, Luciano	Influence of the Nearshore Bathymetry on the Evolution of Breaking Wave Induced Macrovortices	Brocchini, Kennedy, Lorenzoni
Solomon, Steven	Role of Bottomfast Ice in Controlling Nearshore Processes and Engineering Conditions at the Mouth of the Mackenzie River Delta, Beaufort Sea, Canada	Manson, Fraser, Moorman, Stevens, Whalen
Soltanpour, Mohsen	Irregular Wave Transformation on Mud Profiles including the Fluidization of Mud Layer	Shibayama, Haghshenas
Sørensen, Ole Rene	Numerical Modelling of Wave-Current Interaction in Tidal Inlets using an Unstructured Finite Volume Technique	Kofoed-Hansen
Sou, In Mei	An Experimental Study of Flow Characteristics in the Surf and Swash Zones	Cowen, Liu
Soulsby, Richard	Prediction of Ripple Geometry for Acoustic Response and Hydrodynamic Roughness Applications	Whitehouse
Sousa, Isaac	Risk Assessment of Sines' West Breakwater: Physical Model Tests and Formula Calibration	Santos
Spanhoff, Ruud	Towards a Better Understanding and Design of Shoreface Nourishments in The Netherlands	van de Graaff
Sparboom, Uwe	Slender Cylinders under Wave Attack	
Splinter, Kristen	Bathymetric Estimation Based on Wave Refraction Patterns	Holman
Stanczak, Grzegorz	Breaching of Sea Dikes Initiated by Breaking Wave Impact	Oumeraci, Korthenhaus
Stansby, Peter	Long-Term Prediction of Nearshore Wave Climate with an Application to Cliff Erosion	Zhou, Kuang, Walkden, Hall, Dickson
Stanton, Tim	Wave Stress and Sediment Suspension Relationships During CROSSTEX	
Stauble, Donald K.	Evaluation of the Use of Submerged Prefabricated Structures to Stabilize a Beach Fill	Smith, Wise, Farrell
Stive, Marcel	Nourishment of Tidal Basins	Wang
Subramaniam, Naresh	Generation of Reflection-free Waves in a Numerical Wave Flume using PID Feedback Control	Li, Ingram, Mingham
Suh, Kyung-Duck	Reflection and Transmission of Regular Waves by Multiple-row Curtainwall Pile Breakwater	Ji
Sumiya, Michio	Simultaneous Prediction of Beach Changes and Grain Size Distribution on a Coast with Artificial Headlands	Uda, Kumada, Serizawa
Suntoyo	Bottom Shear Stress and Sediment Transport Calculation Characterized by the Acceleration Effect under Non-Linear Waves Motion	Tanaka, Sana
Suzuki, Takayuki	Medium-term Shoreline Changes at Hasaki, Japan	Kuriyama
Synolakis, Costas	Near and Far Field Effects of the 26 December 2004 Tsunami in the Indian Ocean	Borrero, Fritz, Okal
Tabar, Jeffrey	Post-Hurricane 2004 Performance Evaluation of Coastal Armoring Structures	Chalecki, Ketteridge
Tajima, Yoshimitsu	Numerical Study on the Effect of Porous Submerged Mound to Dissipate Non-breaking Long Waves	Kozuka, Ohshima, Moriya

PRIMARY AUTHOR	PAPER TITLE	COAUTHOR(S)
Takahashi, Shigeo	Basic Performance of Long-Wave Absorbing System using Seawalls	Suzuki
Takayama, Tomotsuka	Field Observations and Numerical Simulations for the Response Properties of Pore Water Pressures in the Seabed beneath a Composite Breakwater	Yasuda, Tsujio, Taniguchi
Tanaka, Hitoshi	Application of Old Maps for Studying Long-Term Shoreline Change	Takahashi, Matsutomi, Norihiro Izumi
Tanaka, Nobukazu	Field Measurement of Dynamic Pressure under Waterproof Sheet at Ash Disposal Site	Sakakiyama
Teakle, Ian	Sheet Flow Sediment Transport Modelling, including Boundary Layer Streaming	Nielsen
Ten Oever, Erik	Theoretical and Experimental Study on the Placement of Single Layer Armour Units	Verhagen, Klabbbers

Teran Cobo, Pablo	Model Simulations of Bar Evolution on a Large-scale Laboratory Beach	Kirby, Haller, Ozkan-Haller, Magalen
Terrile, Emanuele	Instantaneous Bed Shear Stresses in Shoaling Waves	Reniers, Stive
Testik, Firat	Dynamics and Geometry of Ripples under Shoaling Waves	Voropayev, Fernando, Balasubramanian
Thao, Nguyen Danh	Numerical Simulation of Three-Dimensional Wave Breaking	Shibayama
Thaxton, Chris	Power Law for Transport of Bimodal Size Distributions of Sediment from Wave Forcing	Calantoni
Theocharis, Zoe	Improvement of the Wave Height Forecast in Deep and Intermediate Waters with the Use of Stochastic Methods	Memos, Koutsoyiannis
Thornton, Edward	Rip-Currents, Cuspate Shorelines and Eroding Dunes	Sallenger, Woods, McWilliams
Ting, Francis	Laboratory Study of Turbulent Flow Structures in Breaking Waves by Particle Image Velocimetry	
Tinker, Jonathan	Cross-shore Sediment Transport and Profile Evolution on Natural Beaches: The X-SHORE Project	Russell, Masselink, O'Hare, Butt, Ganderton, Gallagher
Tirindelli, Matteo	Keystone Harbor, WA: Coastal Engineering in Support of Design Studies for New Ferry Terminal	Fenical, Shepsis, Cox
Toffoli, Allesandro	Non-Gaussian Properties of Surface Elevation in Crossing Sea States in Shallow Water	Onorato, Osborne, Monbaliu
Tomasicchio, Guisepppe Robe	Initiation of the Breaking Process in Boussinesq-type Wave Models	D'Alessandro
Tomita, Takashi	Application of Three-Dimensional Tsunami Simulator to Estimation of Tsunami Behavior Around Structures	Honda, Kakinuma
Tørum, Alf	New International Standard for "Actions from Waves and Currents on Coastal Structures"	Burcharth, Goda, Kortenhaus, Kriebel
Treadwell, Donald D.	Reinforced Concrete Armor Units for Coastal Structures	Magoon
Tsai, Ching-Piao	A Modified Model for Wave Decay on Beaches	Chen
Tschirky, Paul	Dredging Shallow Draft Navigation Channels: The North Carolina Experience	
Tuan, Thieu Quang	Numerical Modelling of Wave Overwash at Low-crested Sand Barriers	Verhagen, Visser
Turner, Ian	Bed-level Measurements in the Swash Zone at Wave-by-Wave Frequencies	Russell, Butt
Tzong, George T. J.	Ship Motion Modeling in Los Angeles and Long Beach Harbors	Lai, Lee
Uda, Takaaki	Model for Predicting Dynamically Stable Beach Based on Analogy with Two-Dimensional Flow	Serizawa, San-nami, Furuike, Shibazaki
Udo, Keiko	Temporal Changes of Backshore Topography and Sand Grain Size Under Wind and Wave Actions	Yamawaki, Ito
Umeda, Shinya	Three-Dimensional Numerical Modeling of Flow and Scour Around a Vertical Cylinder	Cheng, Yuhi, Ishida
Uzaki, Ken-ichi	Characteristics of Moored Ship Oscillation due to Long Period Waves	Matsunaga, Nishii, Ikehata
van der Burgh, Lisette	Dynamics of a Coupled 'Beach State' - 'Beach Use' System	Wijnberg, Hulscher, Mulder
van der Meer, Jentsje	The Wave Overtopping Simulator	Snijders, Regeling
Van Dongeren, Ap	Boussinesq-Type Wave Model as a Driver for a Morphodynamic Model	Roelvink, Wenneker, Rusdin
van Gent, Marcel	Dune Erosion Tests to Study the Influence of Wave Periods	Coeveld, Walstra
van Oosten, Reinoud	Wave Transmission at Various Types of Low-Crested Structures Using Neural Networks	Peixo Marco, van der Meer, Verhagen

PRIMARY AUTHOR	PAPER TITLE	COAUTHOR(S)
van Rijn, Leo	Effect of Grain Size on Sand Transport in Coastal Flows	
van Thiel de Vries, Jap	Modelling Swash Hydrodynamics during Storm Surges	van de Graaff, Reniers, Stive
Veeramony, Jayaram	Wave Breaking in Shallow Water Spectral Models	Kaihatu
Veloso-Gomes, Fernando	Monitoring of the Coastal Defence Works of Costa da Caparica, Portugal	Taveira-Pinto, Pais-Barbosa
Verhaeghe, Hadewych	Wave Overtopping at Coastal Structures: Development of a 2-phase Neural Network	De Rouck
Viggiani, Giuseppe	On Setup Behind Submerged Breakwaters	
Visser, Paul	Breaching of Dikes	Zhu

Walkden, Mike	Shore Profile Sensitivity to Sea Level Rise	Dickson, Hall
Wallace, Edward	Preparation of Pacific Coast Guidelines for Flood Hazard Analyses and Mapping	MacArthur, Chowdhury, Sakumoto
Wamsley, Ty	Coastal Barrier Breaching - Comparison of Numerical and Physical Models	Kraus, Larson, Hanson
Wang, Xiaoming	The 2004 Indian Ocean Tsunami Simulation with Transient Seafloor Motion and Source Region Optimization	Liu
Wang, Zhanxian	Coupling of a Storm Surge Model and Nearshore Wave Model	Ying, Vickery
Watanabe, Akira	A Numerical Model for Deformation of Highly-Dispersive Waves on Strong Currents with Arbitrary Reflection/Transmission Boundaries	Kobayashi, Takagi
Watanabe, Yasunori	Irrotational, Rotational, and Turbulent Flows in Breaking Waves	
Weaver, Robert	Real-Time Forecasting System of Winds, Waves and Surge in Tropical Cyclones	Slinn
Webb, Brett	Modeling Bed Morphology Under Waves and Currents	Slinn, Hanes, Rubin
Weishar, Lee	Numerical Models: A Tool for Balancing Regulatory and Stakeholder Concerns in the Restoration of Degraded Wetland Systems	Bosma
Werren, David	Breakwater Damage and Rehabilitation, Terceira Island, Azores	Scott, Petykowski, Kenny
Wiersma, Frank	Man, Mangroves and Embankments: Institutional Capacity Building	van Haselen, Opdam, Howard,
Wijetunge, Janaka	Effect of Underlayer and Core Permeability on Wave Run-Up Over Rubble-Mound Coastal Structures	
Wijnberg, Kathelijne	Response of a Shoreline Sand Wave to Beach Nourishment	Aarninkhof, Spanhoff
Wilkens, Jort	Input Filtering versus Real-time Input for the Forcing of Medium Scale Morphodynamic Models in a Tidal Flat Environment	Mayerle
Willems, Kenneth	Extreme Waves Revisited	Sanchez-Arcilla, Gomez Aguar, De Rouck, Troch, Bolaños
Willems, Marc	Wave Impact Loading on a Pedestrian Walkway on Top of a Breakwater	Verwaest, Hermans, Demey
Williams, Jon	Use of Radar to Study Surf Zone Morphodynamics	Bell, Guedes, Pereira, Calliari
Winer, Harley	A New Paradigm for Managing the Lower Mississippi River	
Wolf, Judith	Modelling and Measurement of Waves in Coastal Waters	Osuna
Woo, Seung-Buhm	Mass-Conserving Boundary Condition for Extended Boussinesq Equations : Application to Stem Wave Generation	Cho, Lee
Wu, Chin	An Efficient Three-dimensional fully Non-hydrostatic Model for Free-surface Flows	Yuan
Wu, Chung-Sheng	Tropical Storm Winds Induced Waves and Surges at Landfall	
Wu, Frank	Hydrodynamic Simulation for San Elijo Lagoon Restoration Project	DiRamos, Shibao, Williams
Wu, Tso-Ren	Interactions between 3D Dam-Break Bores and a Square Cylinder	Liu
Xhardé, Regis	Erosion and Coastal Geohazards Monitoring using Airborne LIDAR: Case Study in the SW Gulf of St. Lawrence, Canada	Long
Yamada, Fumihiko	Intertidal Multiple Sand Bars on Meso-Tidal Beach	Kobayashi
Yamaguchi, Masataka	Revised System for Long-Term Wave Hindcasting and its Applicability	Hatada
Yamamoto, Yoshimichi	Mechanism of Coastal Structure Damage Due to Tsunamis, and Case Study of Coastal Damage from Indian Ocean Tsunami	Takanashi, Tomita
Yamashiro, Masaru	Conversion Ratio of Wind Velocity from Prototype to Experimental Model on Wave Overtopping	Yoshida, Hashimoto, Irie

PRIMARY AUTHOR	PAPER TITLE	COAUTHOR(S)
Yamashita, Takao	Reanalysis of Storm Surges and Waves Caused by the 1991 Cyclone in the Bay of Bengal: Effects of Whitecap Dissipation in a Wave-Surge Coupled Simulation	Kim
Yao, Yao	Simplified Nonlinear Boussinesq Modelling of Waves over a Slope	Taylor, Borthwick
Yates, Marissa	Seasonal Changes in Sand Level and Wave Energy on Southern California Beaches	Guza, Seymour, Thomas, O'Reilly

Yoo, Jeseon	Wave Property Estimation from Nearshore Video Images by Linear Feature Extraction and Particle Image Velocimetry (PIV)	Fritz, Haas, Work, Barnes
Yoon, Seong Jin	Controlling Entrainment of Sediment into a Small Harbor with Channel-type Breakwater	Deguchi, Kim
Yoshino, Jun	Typhoon Early Warning System Based on a Coupled Atmosphere Ocean Wave Model	Murakami, Yasuda
Young, Martin	Grass Cover Layer Failure on the Inner Slope of Dikes Subjected to Wave Overtopping	Hassan
Yu, M-J.	Parabolic Bay Shape Equation Revisited for Practical Applications	Chen, Hsu
Yuhi, Masatoshi	Pre-conditioned EOF Analysis for Long-Term Morphodynamics on Eroding Coast	Yamada, Ishida
Zanuttigh, Barbara	Wave Reflection from Coastal Structures	van der Meer
Zhang, Haiwen	Deterministic Combination of Numerical and Physical Models for Directional Waves	Schäffer
Zhao, Qun	Fine Sediment Transport under Storm Event: The Huanghua Experience	
Zheleznyak, Mark	Laboratory and Numerical Studies of Waves, Currents and Sediment Transport at the "Bystryy" Navigation Channel, Danube River Delta	Khomitsky, Kivva, Demchenko, Kolomiets, Shepeleva
Zhi-Cheng, Huang	Investigation on the Evolution of Submerged Sand Berm	Hwung-Hweng, Kao-Shu
Zhou, Jianguo	A Fundamental Experimental and Numerical Study of Large-Scale Morphodynamics	Garcia-Hermosa, Apsley, Stansby
Zhu, Yuliang	Hydromechanical Characteristics of the Formation of the Radial Sandbanks in the Southern Yellow Sea	Yan, Pan
Zou, Shan	Sediment Suspension Simulation Under Oscillatory Flow by SPH-SPS Method	Dalrymple
Zou, Zhili	Experimental Study of the Instability of Longshore Currents on Plane Beaches	Ren, Jin, Qiou, Sun

附錄2 張貼論文名稱及作者

POSTER PAPERS ACCEPTED FOR ICCE 2006

PRIMARY AUTHOR	POSTER PAPER TITLE	COAUTHOR(S)
Abeyirigunawardena, Dilumie	Anticipated Impacts Due to Climate Change Induced Extreme Meteorological Events on the North Coast of British Columbia, Canada	Walker
Antonio, Stephen	Multi-Level Adaptive Model for Wave Propagation	Hall
Arntsen, Øivind A.	Experimental Studies on the Motion of a Moored Buoy in Shallow Water Waves	
Barter, Peter	Development and Application of Data Analysis Tools for Beach Management in Southern England	Bradbury, Mason
Barousseau, Jean-Paul	Morphological Modelisation on a Seasonal Scale of Nourishment Strategies on Two Mediterranean Beaches	Certain, Larroudé
Booster, Lennart	Bio-Dunes: In-situ Dune Strengthening with Bacteria	Whiffin, de Groot
Briere, Christophe	Numerical Modeling of Sandbank Dynamics	Roos, Hulscher
Broadfoot, David	Coastal Erosion and Community Relocation for Alaskan Native Villages	Robinson, Pace
Cateura, Jordi	Comparative Performance of Wave Prediction Models for East and West Coasts of the Mediterranean Sea	Bolaños, Sánchez-Arcilla, Gertman, Murashkovsky, Raskin, Rosen
Cox, Jack	Reverse Engineering Harbor Geometries to Achieve Water Quality and Basin Agitation Goals	Utku
Craig, John	Development of a Linked Modeling System of Los Angeles and Long Beach Harbors to Support Regulatory Decisions	Hamrick, Kozelka, King, Carter, Nye
Cruz, Eric	Numerical Simulation of Nonlinear Wave Field on Porous Coastal Structures	Chen
Cummings, Peter	Newport Waterways Canal Estate Dredging: A Case Study	Bettington
Davie, Steven	Development of a Modeling Management Tool to Support the Savannah Harbor Expansion Project, Savannah, Georgia	Hamrick
Di Natale, Michele	Experimental Study on Morphological Evolution of River Mouths in Subsidence Areas	Di Ronza, Eramo
Diaz Mendez, Guillermo	Extreme Water Levels and Coastal Erosion at Tehuantepec, Mexico	Medina Santamaria, Ocampo Torres
Estaban, Miguel	Laboratory Experiments on the Progression of Damage on Caisson Breakwaters Under Impact Waves	Shibayama
Esteves, L. S.	Measurements of Concentration Profiles of Suspended Sediments Across the Surf Zone	Williams, Lisniowski, Perotto
Evertz, Thorsten	Elastomeric Revetments - New Approach to Coastal Protection	Pasche, von Lieberman
Ferrante, Vincenzo	Application of Wavelet Transform Analysis to Wave Transmission Behind Submerged Breakwaters	Vicinanza
Friebel, Harry	Measurement of Surf Zone Air-Sea Momentum Exchange	Herrington, Benilov
Galiatsatou, Panagiota	Bivariate Extremes Analysis of Waves and Surges Using a Point Process Approach	Prinos
García Triana, Ivan David	Analytical Solution for Nonlinear Solitary Waves Runup in Rectangular Channels	Zarruk
Giménez, Marcos H.	Mean Direction Analysis in Directional Seas	Sánchez-Carratalá
Gomez Aguar, Jesus	Fetch Control on Extreme Wave Distribution	Andreoli, Sanchez-Arcilla, Franco
Gonzalez-Rodriguez, David	Prediction of Non-linear Random Wave Characteristics in the Surf Zone	Madsen
Gruene, Kathrin	Field Study on Long Wave Characteristics in Shallow Waters	Joachim
Haigh, Ivan	Tide and Storm Surge Interaction in the English Channel	Jones, Harris
Hamaura, Yota	Development of a New Type Block to Use Water Regions Over Submerged Breakwaters for Reproducing Seaweed Beds	Tsujimoto, Kakinoki
Hamrick, John	Charleston Harbor Modeling, Charleston, South Carolina	Davie
Hayes, Shaun	Comparison of Physical and Numerical Model Results for a Wave Penetration Study for the Port of Durban	Wijnberg, Kofoed-Hansen

Hemsley, J. Michael	Forecasting and Mitigating Natural Hazards - Getting the Data You Need	
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PRIMARY AUTHOR	POSTER PAPER TITLE	COAUTHOR(S)
Heurtefeux, Hugues	Storm Control on Overwash Processes and Shoreline Retreat on a Microtidal Littoral Barrier	Sabatier
Hosking, Adam	Regional Assessment to Address Local Coastal Defence Problems	Burgess
Hu, Kelin	Storm Surge Computations for the Waters of Yangtze Estuary and HangZhou Bay, China	Ding, Gao
Hurther, David	Measurements at Turbulent Scales of Velocity and Sediment Concentration in the Surf Zone of Irregular Waves Over a Weekly Barred Beach at Equilibrium	Michallet, Gondran
Ilic, Suzana	Decadal Evolution of Macro-tidal Beach Behind Shore Parallel Breakwaters	Chadwick
Ingram, David	Free Surface Simulation of Wave Overtopping during Storms	Gao, Causon
Johnston, Shelley	Bedform Dynamics in Moriches Inlet	FitzGerald
Jones, Oliver	An Investigation into the Principal Morphological Driving Mechanisms in the Bristol Channel, UK	Simons, Harris, Koefed-Hansen, Haigh
Karambas, Theophanis	Modeling of Waves, Currents and Morphology Evolution Behind Detached Porous Submerged Breakwaters	Avgeris, Prinos
Kim, Gunwoo	Internal Generation of Waves Using Flux Source	Lee, Suh
Kimura, Akira	Approximation of the Low Frequency Harbor Oscillation in a Rectangular Harbor	
Koftis, Theoharris	Turbulence Effects On Wave Overtopping Of Floating Structures	Prinos
Kortenhaus, Andreas	Failure Modes for Flood Defence Structures: Review and GIS Application for Flood Prone Areas	Morris, Allsop, Buijs
Landim, José	Littoral Transport Fluctuations on Various Time Scales at Belmonte, Brazil	Elfrink
Larroudé, Philippe	Morphological Modelling of Nourishment Strategies on a Mediterranean Beach Using New Sediment Transport Formula	Camenen, Larson
Lee, Jung Lyul	Multiple Scattering of Waves Affected by Vortices Shedding from the Lower Edges of Thin Barriers	
Li, Ming	Comparison of Sand Transport Under Regular and Irregular Waves above Rippled Bed	Pan, O'Connor
Lin, Weiqi	Hurricane Caused Property Damages Beach Erosion and Accretion During Florida Hurricane Season	
Liou, Jin-Yih	Modelling of Short Term Morphological Changes of the Suang-Xi Estuary	Hwang, Hwung, Wu
Lorenzoni, Carlo	Shoreline Protection by Means of Dissipative Structures	Mancinelli, Piatella, Soldini
Lykke Andersen, Thomas	Wave Reflection from Reshaping and Non-Reshaping Berm Breakwaters	Burcharth
Marrone, Joseph	Evaluation of Historic Shoreline Change and Development of Coastal Erosion Best Management Practices for the North Shore of Long Island, NY	
Mase, Hajime	Wave Focusing of Multidirectional Random Waves due to Rip Currents	Amamori, Takayama, Otta
McVey, Stuart	Hurst Spit (UK) Beach Managment Scheme: Ten Years of Post-Construction Performance	Bradbury, Ferguson, Eastick
Mohal, Nasreen	Improvement of Navigability of Mongla Port: A Case Study	Khan, Hye
Moreira, Roger Matsumoto	Nonlinear Interaction Between Water Waves and Currents	Chacaltana
Müller-Navarra, Sylvin	Simulation of Super Storms in the North Sea	Bork, Jensen, Mundersbach, Koziar, Renner
Mulligan, Ryan	Wave-driven Circulation Around a Shoal	Bowen
Nakamura, Takayuki	Development of Highly Dissapative Floating Breakwaters and Effectiveness in a Harbor	Kim
Otta, Ashwini	Wave Spectrum on an Adverse Current	
Perry, Cameron	Interaction of Shore-Parallel Geotextile Tubes and Beaches Along the Upper Texas Coast	Heilman

Portilla, Jesus	Impact of Wave Data Assimilation on Near Shore Wave Climate Assessment	Monbaliu
Qingshan, Ma	Regional Frequency Analysis of Significant Wave Heights Based on L-Moments	Yanbao
Ranasinghe, Roshanka	Structural and Environmental Parameters Governing the Mode of Shoreline Response to Submerged Breakwaters	Larson, Savioli

PRIMARY AUTHOR	POSTER PAPER TITLE	COAUTHOR(S)
Requejo, Soledad	Middle-term Evolution Model for Beaches	Medina, Gonzalez
Rooney, Timothy	Cost Share Federal Beach Nourishment Project for Absecon Island, New Jersey: Two Year History within Atlantic City and Ventnor City	
Rouault, Pascale	Necessary Linkage of Rubble Mound Structure Design With Construction Method	Nehrig, Meng, Stueckrath
Ruol, Piero	Two-Dimensional Physical and Numerical Modelling of Bottom Moored Floating Breakwaters	Martinelli, Zanuttigh
Salles, Paulo	Modeling and GIS for an Operational Flood Prediction System in the Yucatan Peninsula	Silva, Bautista, Iturbe
Sanil, Kumar	Nearshore Processes Along the Coastline of India	Kishan, Premanand, Raju, Gowthaman
Santos, Joao	An Operational System for Wave Effects in Ports	Fortes, Pinheiro, da Graça Neves
Schretlen, Jolanthe J. L. M.	Modelling of Cross-shore Transport under Non-breaking Waves in Sheet Flow Conditions	Van der Werf, Ribberink, Uittenbogaard, O'Donoghue
Silver, Aaron	Striking the Balance between Beach and Revetment - Coastal defenses for Double Tracking the Seattle to Everett Commuter Rail Project along Puget Sound	Mast, Khouri
Silvestre, Carlos	New Tools for the Inspection of Rubble-Mound Breakwaters	Oliveira, Pascoal, Sebastião, Alves, Santos, da Graça Neves
Tang, Fu Ee	Pollutant Dispersion Around the Perimeter of a Coastal Headland	Chen
Thomas, Ian	Pevensey Bay Sea Defences - An Innovative Approach	
Tokunaga, Takahisha	Formation of High Turbidity Layer and Oxygen Consumption by Suspended Solids in Western Area of the Ariake Sea	Matsunaga, Nobuhiro, Kodama
Tomlinson, Rodger	Objective Assessment of Beach State Via Remote Video Monitoring	Browne, Strauss
Tozer, Nigel	Practical Application of a Coastal Wave and Overtopping Forecast Service	Allsop, Saulter, Murkin
Valdemoro, Herminia	Influence of Shoreline Changes on Beach Recreational Carrying Capacity	Jiménez
van der Veen, Henriët	Influence of Sandpits on the North Sea Seabed	Perez Lapena, Roos, Hulscher, Knaapen
van der Wegen, Mick	Long-term Stability of Estuarine Channel Shoal Systems	Roelvink
van der Werf, Jebbe	Intra-wave Modelling of Sand Transport Over Rippled Beds	van der A, Ribberink, Davies
van der Westhuysen, Andre	Depth-induced Breaking over Horizontal Bottoms in SWAN	Bottema, Zijlema, Battjes
van Vledder, Gerbrant	Wave Modelling In and Around Harbours	Enet, Hurdle, Lucotte
Vicinanza, Diego	SEDBATH: Nearshore Morphobathymetry Prediction Tool	Ferrante, Ciavola
Vidal, Cesar	Design Formulae for Stability of Rubble Mound Low-Crested Structures	Fernando, Lomonaco, Garcia
Vittori, Giovanna	Predictions of Sand Banks in the North Sea	Besio, Blondeaus
Voulgaris, George	The Relationship between Longshore Currents and Weather Fronts near Myrtle Beach, South Carolina, USA	Haas, Work, Hanes
Ward, Donald	Laboratory Testing of Offshore Breakwaters Using ReefBall Artificial Reef Units	
Winter, Christian	Evaluation of Bedload Formulations in Tidal Environments	Ernstsen, Noormets
Witting, Markus	Defining Boundary Conditions for Nonlinear Shallow Water Wave Models for Wave Runup and Overtopping	Kaiser, Niemeyer
Wolters, Guido	Relevance of Acoustic Concepts in Coastal Engineering	Muller
Yamamoto, Jun	Effects of Wind-driven Current Caused by Western Wind of Water Quality in Shizukawa Bay	Tanaka

Yokoki, Hironune	New Coastline Change Model Incorporating the Cross-shore Distribution of Longshore Sediment Transport Rate and its Application to Ajigaura Coast, Japan	Minami, Mimura
Yoshida, Akinori	Spectral Estimation Around an Island Utilizing Wave Scattering Theory	Yamashiro, Irie
Zeris, Athanasios	Two Dimensional Huang Hilbert Transform: Analytic Overtopping Wave Image	Koftis, Prinos